



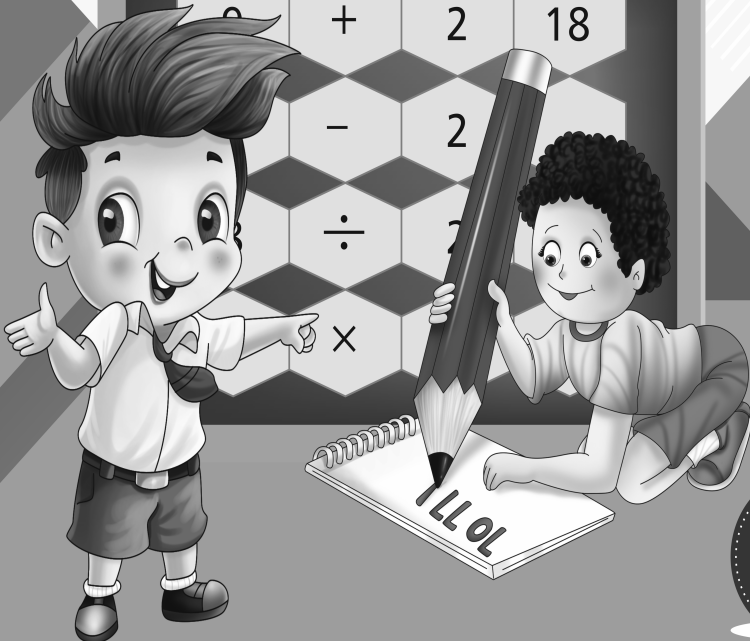
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Maths Magic

NEP 2020
ENHANCED
EDITION

Teacher Manual



3

MATHS

CLASS 3

CHAPTER 01

1. (a) 296 (b) 349 (c) 779
(d) 916 (e) 189 (f) 659
2. (a) 769 = 700 + 60 + 9
(b) 672 = 600 + 70 + 2
(c) 981 = 900 + 80 + 1
(d) 505 = 500 + 00 + 5
3. (a) 10 (b) 99 (c) 100
(d) 999
4. 512, 514, 516, 518, 520, 522, 524
5. 641, 643, 645, 647, 649, 651, 653, 655, 657,
659, 661, 663
6. (a) Before—299 After—301
(b) Before—431 After—433
(c) Before—664 After—666
(d) Before—788 After—790
7. (a) 355 (b) 568 (c) 749
(d) 882
8. (a) 458, 548, 845, 485, 854, 584
(b) 567, 765, 675, 576, 756, 657
(c) 278, 728, 827, 782, 872, 828

E.X. 1.2

$$\begin{array}{r}
 \text{1. (a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 2 \quad 2 \quad 5 \\ + 3 \quad 5 \quad 1 \\ \hline 5 \quad 7 \quad 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 4 \quad 6 \quad 3 \\ + 2 \quad 1 \quad 6 \\ \hline 6 \quad 7 \quad 9 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 7 \quad 1 \\ + 1 \quad 1 \quad 8 \\ \hline 6 \quad 8 \quad 9 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{1} \quad 6 \quad 0 \\ + 5 \quad 6 \quad 0 \\ \hline 7 \quad 2 \quad 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{2} \quad \overset{\textcircled{0}}{6} \quad 0 \\ + \quad \quad 5 \quad 8 \\ \hline \quad \quad 6 \quad 5 \\ \hline 3 \quad 8 \quad 3 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 6 \quad \overset{\textcircled{0}}{3} \quad 8 \\ + 2 \quad 4 \quad 2 \\ \hline 8 \quad 8 \quad 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad \overset{\textcircled{0}}{8} \quad 8 \\ + 2 \quad 0 \quad 4 \\ \hline 7 \quad 9 \quad 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{8} \quad 4 \quad 0 \\ + \quad \quad 6 \quad 7 \\ \hline 9 \quad 0 \quad 7 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 4 \quad \overset{\textcircled{0}}{7} \quad 3 \\ + 3 \quad 0 \quad 7 \\ \hline 7 \quad 8 \quad 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{3.} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{2} \quad 5 \quad 0 \\ + 3 \quad 5 \quad 0 \\ \hline 6 \quad 0 \quad 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{4. Number of Small beads} = \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{2} \quad \overset{\textcircled{0}}{4} \quad 5 \\ \text{Number of big beads} = \begin{array}{r} 1 \quad 5 \quad 5 \\ \hline 4 \quad 0 \quad 0 \end{array}
 \end{array}$$

Ans. 400 beads

$$\begin{array}{r}
 \text{5. Number of Hindi books} = \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{3} \quad \overset{\textcircled{0}}{2} \quad 5 \\ \text{Number of Science books} = 2 \quad 8 \quad 0 \\ \text{Number of English books} = 1 \quad 7 \quad 5 \\ \hline 7 \quad 8 \quad 0 \end{array}
 \end{array}$$

Ans. 780 books

E.X. 1.3

$$\begin{array}{r}
 \text{1. (a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad 4 \quad 5 \\ - \quad 2 \quad 3 \quad 2 \\ \hline 3 \quad 1 \quad 3 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 6 \quad \overset{\textcircled{0}}{6} \quad 7 \\ - \quad 4 \quad 2 \quad 7 \\ \hline 2 \quad 4 \quad 0 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{\textcircled{0}}{3} \quad \overset{\textcircled{0}}{8} \quad 9 \\ - \quad 1 \quad 5 \quad 7 \\ \hline 2 \quad 3 \quad 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 7 \quad 9 \quad 4 \\ - \quad 3 \quad 8 \quad 2 \\ \hline 4 \quad 1 \quad 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{4}{5} \quad \overset{9}{0} \quad \overset{10}{0} \\ - \quad 3 \quad 9 \quad 9 \\ \hline 1 \quad 0 \quad 1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{3}{4} \quad \overset{13}{4} \quad \overset{14}{4} \\ - \quad 8 \quad 8 \\ \hline 3 \quad 5 \quad 6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{5}{6} \quad \overset{10}{0} \quad 5 \\ - \quad 7 \quad 0 \\ \hline 5 \quad 3 \quad 5 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{3}{4} \quad \overset{16}{7} \quad \overset{18}{8} \\ - \quad 1 \quad 9 \quad 9 \\ \hline 2 \quad 7 \quad 9 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{7}{8} \quad \overset{16}{7} \quad \overset{12}{2} \\ - \quad 3 \quad 9 \quad 5 \\ \hline 4 \quad 7 \quad 7 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 5 \quad \overset{5}{6} \quad \overset{12}{2} \\ - \quad 2 \quad 4 \quad 3 \\ \hline 3 \quad 1 \quad 9 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{6}{7} \quad \overset{9}{0} \quad \overset{17}{7} \\ - \quad 2 \quad 0 \quad 8 \\ \hline 4 \quad 9 \quad 9 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ \overset{8}{9} \quad \overset{10}{1} \quad \overset{12}{2} \\ - \quad 3 \quad 6 \quad 8 \\ \hline 5 \quad 4 \quad 4 \end{array}
 \end{array}$$

3. (a) 124
(e) 539

(b) 233

(c) 582

(d) 753

$$\begin{array}{r}
 \text{4. Total Students} \quad = \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 8 \quad \overset{13}{9} \quad \overset{15}{5} \\ = \quad -3 \quad 8 \quad 7 \\ = \quad 5 \quad 5 \quad 8 \end{array}
 \end{array}$$

Number of Girls
∴ Number of boys

Answer 558 boys

$$\begin{array}{r}
 \text{5. Cost of bicycles} \quad = ₹ \begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 9 \quad 7 \quad 5 \\ = ₹ \quad -8 \quad 2 \quad 3 \\ = ₹ \quad 1 \quad 5 \quad 2 \end{array}
 \end{array}$$

∴ Answer = ₹ 152

E.X. 1.4

1. (a) Sides – 3
corners – 3
(c) Sides – 4
corners – 4
- (b) Sides – 4
corner – 4
(d) Sides – 0
corner – 0
2. (a) Rectangle
(c) Circle
(e) Rectangle
(g) Square
(i) Square
- (b) Rectangle
(d) Rectangle
(f) Circle
(h) Rectangle
(j) Circle

E.X. 1.5

1. (a) 15 (b) 16 (c) 40 (d) 56
(e) 45 (f) 100 (g) 40 (h) 36
2. (b) $4 \times 5 = 20$ (d) $6 \times 3 = 18$
(c) $5 \times 10 = 50$ (e) $5 \times 8 = 40$

3. (a)
$$\begin{array}{r} 27 \\ \times 5 \\ \hline 135 \end{array}$$
 (b)
$$\begin{array}{r} 90 \\ \times 2 \\ \hline 180 \end{array}$$
 (c)
$$\begin{array}{r} 78 \\ \times 2 \\ \hline 156 \end{array}$$
 (d)
$$\begin{array}{r} 36 \\ \times 5 \\ \hline 180 \end{array}$$

4. Number of persons in 1 bus = 50
Number of persons in 9 buses = 50×9
= $\begin{array}{r} 50 \\ \times 9 \\ \hline 450 \end{array}$

Answer 450 Persons

- (b) Money donated by each student = ₹ 5
Number of students = 32
 \therefore Money collected = 32×5

$$\begin{array}{r} \textcircled{3} \ 2 \\ \times \ 5 \\ \hline 1 \ 60 \end{array}$$

Answer = ₹ 160

(c) Money saved in one day = ₹ 3

∴ Money saved in 30 days = 3×30

$$\begin{array}{r} 3 \ 0 \\ \times \ 3 \\ \hline 9 \ 0 \end{array}$$

∴ Answer = ₹ 90

E.X. 1.6

(a) $45 \div 9$

$$\begin{array}{r} 45 \\ \underline{-9 \dots (1)} \\ 36 \\ \underline{-9 \dots (2)} \\ 27 \\ \underline{-9 \dots (3)} \\ 18 \\ \underline{-9 \dots (4)} \\ 9 \\ \underline{-9 \dots (5)} \\ 0 \end{array}$$

∴ $45 \div 9 = 5$

(b) $32 \div 8$

$$\begin{array}{r} 32 \\ \underline{-8 \dots (1)} \\ 24 \\ \underline{-8 \dots (2)} \\ 16 \\ \underline{-8 \dots (3)} \\ 8 \\ \underline{-8 \dots (4)} \\ 0 \end{array}$$

∴ $32 \div 8 = 4$

(c) $30 \div 10$

$$\begin{array}{r} 30 \\ \underline{-10 \dots (1)} \\ 20 \\ \underline{-10 \dots (2)} \\ 10 \end{array}$$

(d) $28 \div 4$

$$\begin{array}{r} 28 \\ \underline{-4 \dots (1)} \\ 24 \\ \underline{-4 \dots (2)} \\ 20 \end{array}$$

$$\underline{-10} \dots (3)$$

$$0$$

$$30 \div 10 = 3$$

$$\underline{-4} \dots (3)$$

$$16$$

$$\underline{-4} \dots (4)$$

$$12$$

$$\underline{-4} \dots (5)$$

$$8$$

$$\underline{-4} \dots (6)$$

$$4$$

$$\underline{-4} \dots (7)$$

$$0$$

$$28 \div 4 = 7$$

2. (a) 3 (b) 3 (c) 5 (d) 7

(e) 5 (f) 7

3. (a) $2 \times 5 = 10$ and $5 \times 2 = 10$

(b) $2 \times 9 = 18$ and $9 \times 2 = 18$

(c) $6 \times 6 = 36$ and $6 \times 6 = 36$

(d) $6 \times 8 = 48$ and $8 \times 6 = 48$

(e) $4 \times 5 = 20$ and $5 \times 4 = 20$

4. (a)
$$\begin{array}{r} 5 \overline{)15} \\ \underline{15} \\ 00 \end{array}$$

(b)
$$\begin{array}{r} 7 \overline{)14} \\ \underline{14} \\ 00 \end{array}$$

(c)
$$\begin{array}{r} 8 \overline{)16} \\ \underline{16} \\ 00 \end{array}$$

(d)
$$\begin{array}{r} 7 \overline{)28} \\ \underline{28} \\ 00 \end{array}$$

(e)
$$\begin{array}{r} 5 \overline{)25} \\ \underline{25} \\ 00 \end{array}$$

(f)
$$\begin{array}{r} 3 \overline{)18} \\ \underline{18} \\ 00 \end{array}$$

5. Cost of 3 chocolates = ₹ 15

\therefore cost of 1 chocolate = $15 \div 3$

$$\begin{array}{r} 3 \overline{)15} \\ \underline{15} \\ 00 \end{array}$$

Answer ₹ 5

(b) Cost of 8 bus tickets = ₹ 32

\therefore cost of each ticket = $32 \div 8$

$$\begin{array}{r} 4 \\ 8 \overline{) 32} \\ \underline{32} \\ 00 \end{array}$$

∴ Answer = ₹ 4

(c) Number of spoons in 4 packets = 64

∴ Number of spoon in each packet = $64 \div 4$

$$\begin{array}{r} 16 \\ 4 \overline{) 64} \\ \underline{4} \\ 24 \\ \underline{24} \\ 00 \end{array}$$

Answer = 16 spoons

Activity - Do yourself

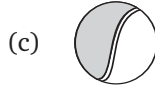
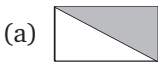
E.X. 1.7

1. (a) $\frac{1}{2}$

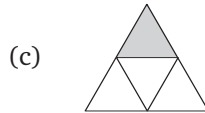
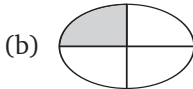
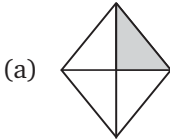
(b) $\frac{1}{4}$

(c) $\frac{1}{3}$

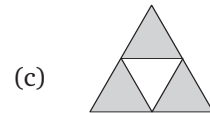
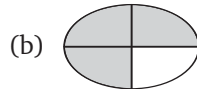
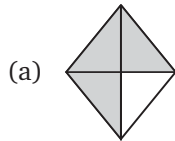
2.



3.



4.



E.X. 1.8

1. (a) m

(b) m

(c) cm

(d) cm

(e) cm

(f) cm

2. (b) 300 cm

(c) 600 cm

(d) 230 cm

(e) 450 cm

(f) 640 cm

(g) 770 cm

(h) 950 cm

3. (a) kg g
 (b) kg g
 (c) kg g
 (d) kg g
 (e) kg g
 (f) kg g

4. (a) ml l
 (b) ml l
 (c) ml l
 (d) ml l
 (e) ml l
 (f) ml l

5.

$$\begin{array}{rcl}
 \text{(a) Length of rope} & = & \begin{array}{r} \text{T} \quad \text{O} \\ 6 \quad 14 \\ \hline \end{array} \text{ m} \\
 \text{Piece of rope cut} & = & \begin{array}{r} -3 \quad 6\text{m} \\ \hline \end{array} \\
 \text{Rope left} & = & \begin{array}{r} 28 \quad \text{m} \\ \hline \end{array}
 \end{array}$$

Answer = 28 m

$$\begin{array}{rcl}
 \text{(b) Weight of first boy} & = & \begin{array}{r} \text{Kg} \quad \text{g} \\ 45 \quad 500 \\ \hline \end{array} \\
 \text{weight of second boy} & = & 48 \quad 000 \\
 \text{Weight of Third boy} & = & \begin{array}{r} 38 \quad 200 \\ \hline \end{array} \\
 \text{Total Weight} & = & \begin{array}{r} 131 \quad 700 \\ \hline \end{array}
 \end{array}$$

∴ Answer = 131 kg 700g

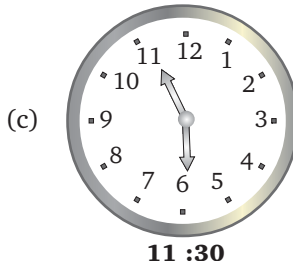
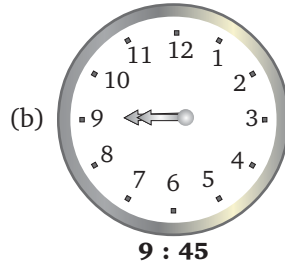
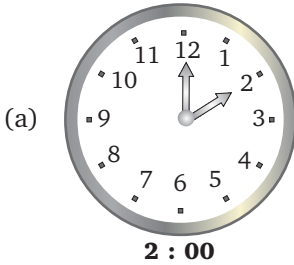
$$\begin{array}{rcl}
 \text{(c) Ghee bought} & = & \begin{array}{r} 1 \quad \text{ml} \\ 8 \quad 13 \\ \hline \end{array} 50 \\
 \text{Ghee consumed} & = & \begin{array}{r} -5 \quad 450 \\ \hline \end{array} \\
 \text{Ghee left} & = & \begin{array}{r} 2 \quad 900 \\ \hline \end{array}
 \end{array}$$

∴ Answer = 2l 900 ml

E.X. 1.9

1. (a) 12 : 00 (b) 4 : 15 (c) 2 : 45 (d) 6 : 30

2.



E.X. 1.10

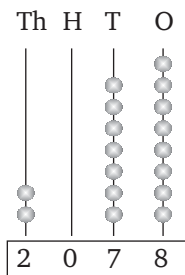
1. (a) ₹ 45 (b) ₹ 315
2. (a) fifteen rupees (b) Thirty-two rupees
(c) Sixty-four rupees and seventy-five paise
(d) One hundred and two rupees and eighty paise
3. (a) ₹ 16.15 (b) ₹ 29.75 (c) ₹ 75.25 (d) ₹ 161.75

CHAPTER 02

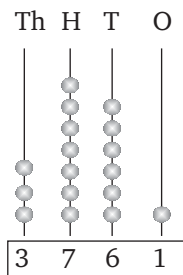
E.X. 2.1

1. (a) 1354 (b) 3535

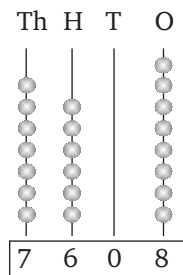
2. (a) 2078



(b) 3761



(c) 7608



3. (a) 5243

(b) 3451

(c) 2630

4. (a) Two thousand six hundred forty-eight

(b) Five thousand eight hundred ninety-two

(c) Three thousand four hundred forty six

(d) Eight thousand five hundred forty-two

5. (a) 8940

(b) 5206

(c) 4850

(d) 2210

6. (a) (iv)

(b) (vi)

(c) (v)

(d) (ii)

(e) (iii) (f) (i)

7. (a) 3555, 3556, 3557, 3558, 3559, 3560

(b) 4111, 4112, 4113, 4114, 4115, 4116

(c) 6581, 6582, 6583, 6584, 6585, 6586

(d) 7497, 7498, 7499, 7500, 7501, 7502

(e) 7295, 7296, 7297, 7298, 7299, 7300

(f) 8082, 8083, 8084, 8085, 8086, 8087

Beat the Clock

1. $999 + 1 = 1000$

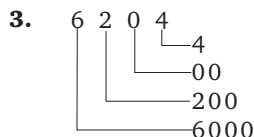
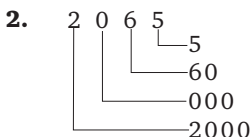
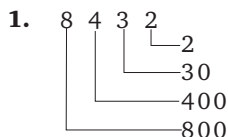
2. $1000 - 1 = 999$

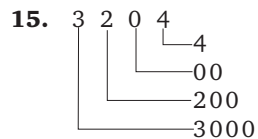
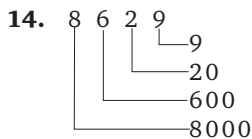
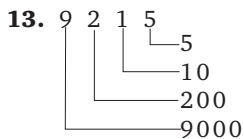
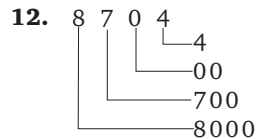
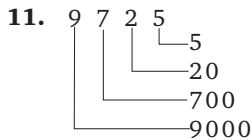
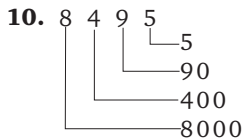
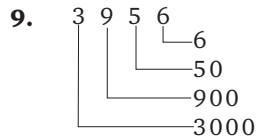
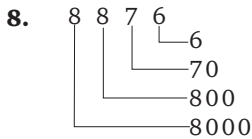
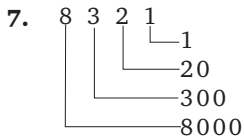
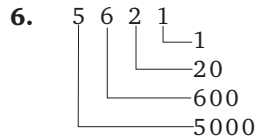
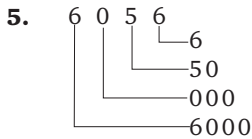
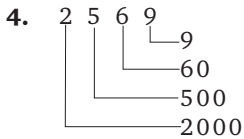
3. Three

4. 9999

5. 100

Beat the Clock





Mental Math

Do Yourself

Beat the Clock

1. $2429 = 2 + 4 + 2 + 9$

2. $806 = 8 + 0 + 6$

3. $6562 = 6 + 5 + 6 + 2$

4. $3047 = 3 + 0 + 4 + 7$

5. $921 = 9 + 2 + 1$

6. $5416 = 5 + 4 + 1 + 6$

E.X. 2.2

1. (a) 50 (b) 30 (c) 200 (d) 500
(e) 80 (f) 6

2. (a) 2 (2) 5 (c) 5 (d) 6
(e) 7 (f) 4

3. (a) $4691 = 4000 + 600 + 90 + 1$
(b) $6666 = 6000 + 600 + 60 + 6$

$$(c) 7007 = 7000 + 000 + 00 + 7$$

$$(d) 8219 = 8000 + 200 + 10 + 9$$

$$(e) 3935 = 3000 + 900 + 30 + 5 \quad (f) 9349 = 9000 + 300 + 40 + 9$$

E.X. 2.3

- 1.** (a) 3001 (b) 875 (c) 580 (d) 772
(e) 826 (f) 466 (g) 998 (h) 8098
- 2.** (a) 843 (b) 901 (c) 906 (d) 909
(e) 796 (f) 804 (g) 2437 (h) 8433
(i) 3334 (j) 5269 (k) 5537 (l) 1000
- 3.** (a) 939 (b) 474 (c) 388 (d) 288
(e) 4517 (f) 7012 (g) 6778 (h) 5880
- 4.** (a) 840 (b) 499 (c) 471 (d) 599
(e) 5955 (f) 908

Mental Maths

1. 223 2. 305 3. 409

E.X. 2.4

- 1.** (a) 982, 289, 298, 892 (b) 573, 537, 735, 357
(c) 641, 416, 614, 461 (d) 803, 308, 380, 830
(e) 729, 792, 279, 297 (f) 816, 618, 681, 186
(g) 876, 678, 687, 786 (h) 760, 706, 670, 607
- 2.** (a) 3842, 3896, 6928, 8926, 9246
(b) 678, 768, 867, 876, 887 (c) 239, 293, 592, 923, 932
(d) 493, 578, 661, 875, 895
- 3.** (a) 942, 763, 683, 517, 513
(b) 968, 876, 867, 786, 687
(c) 9625, 9256, 8952, 8596, 3468
(d) 9535, 9284, 8476, 8162, 6729
- 4.** (a) < (b) < (c) < (d) >
(e) < (f) >

5.

Digits	Smaller Number	Greater Number
5,3,24	2345	5432
4,1,03	1034	4310
8,0,0,1	1008	8100
4,0,4,9	4049	9440
6,1,5,2	1256	6521
9,6,8,1	1689	9861

Sum up

1. (a) $725 = 700 + 20 + 5$ (b) $625 = 600 + 20 + 5$
(c) $807 = 800 + 00 + 7$ (d) $3791 = 3000 + 700 + 90 + 1$
(e) $6792 = 6000 + 700 + 90 + 2$

2. (f) $9602 = 9000 + 600 + 2$

Number Number Names

- (a) 465 Four hundred Sixty-five
(b) 809 Eight hundred nine
(c) 4371 Four Thousand three hundred seventy one
(d) 9503 Nine thousand five hundred three

3.

	Successor	Predecessor
(a) 541	542	540
(b) 3000	3001	2999
(c) 4298	4299	4297
(d) 8888	8889	8887

4. (a) 674 (b) 773 (c) 6800 (d) 5469

5. (a) $>$ (b) $<$ (c) $<$ (d) $<$

- (e) $<$ (f) $<$ (g) $<$ (h) $>$

- (i) $<$

6. (a) 2258, 2268, 2278 (b) 5800, 5900, 6000

- (c) 6905, 7905, 8905

7. (a) (iii) (b) (iii) (c) (ii)

Time to Do

Column A

5316

7801

6325

9602

Column B

5000 + 300 + 10 + 6

7000 + 800 + 00 + 1

6000 + 300 + 20 + 5

9000 + 600 + 00 + 2

Beat the Clock

$$\begin{array}{r} 1. \quad 5 \ 6 \ 3 \ 2 \\ + \ 2 \ 2 \ 2 \ 2 \\ \hline 7 \ 8 \ 5 \ 4 \end{array}$$

$$\begin{array}{r} 2. \quad 3 \ 3 \ 3 \ 3 \\ + \ 3 \ 3 \ 3 \ 3 \\ \hline 6 \ 6 \ 6 \ 6 \end{array}$$

$$\begin{array}{r} 3. \quad 6 \ 5 \ 4 \ 5 \\ + \ 3 \ 3 \ 3 \ 3 \\ \hline 9 \ 8 \ 7 \ 8 \end{array}$$

CHAPTER 3

E.X. 3.1

1.

$$\begin{array}{r} (a) \quad 3 \ 5 \ 0 \ 2 \\ + \ 2 \ 3 \ 4 \ 4 \\ \hline 5 \ 8 \ 4 \ 6 \end{array}$$

$$\begin{array}{r} (b) \quad 5 \ 6 \ 8 \ 2 \\ + \ 2 \ 3 \ 1 \ 4 \\ \hline 7 \ 9 \ 9 \ 6 \end{array}$$

$$\begin{array}{r} (c) \quad 4 \ 4 \ 0 \ 6 \\ + \ 4 \ 5 \ 0 \ 2 \\ \hline 8 \ 9 \ 0 \ 8 \end{array}$$

$$\begin{array}{r} (d) \quad 3 \ 1 \ 6 \ 5 \\ + \ 4 \ 2 \ 2 \ 4 \\ \hline 7 \ 3 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} (e) \quad 3 \ 8 \ 2 \ 4 \\ + \ 3 \ 1 \ 6 \ 3 \\ \hline 6 \ 9 \ 8 \ 7 \end{array}$$

$$\begin{array}{r} (f) \quad 4 \ 6 \ 2 \ 4 \\ + \ 2 \ 1 \ 2 \ 2 \\ \hline 6 \ 7 \ 4 \ 6 \end{array}$$

$$\begin{array}{r} (g) \quad 5 \ 1 \ 8 \ 3 \\ + \ 3 \ 4 \ 0 \ 0 \\ \hline 8 \ 5 \ 8 \ 3 \end{array}$$

$$\begin{array}{r} (h) \quad 7 \ 4 \ 0 \ 6 \\ + \ 2 \ 1 \ 4 \ 3 \\ \hline 9 \ 5 \ 4 \ 9 \end{array}$$

$$\begin{array}{r} (i) \quad 3 \ 4 \ 7 \ 1 \\ + \ 6 \ 1 \ 1 \ 0 \\ \hline 9 \ 5 \ 8 \ 1 \end{array}$$

$$\begin{array}{r} (j) \quad 4 \ 4 \ 1 \ 3 \\ + \ 5 \ 5 \ 1 \ 0 \\ \hline 9 \ 9 \ 2 \ 3 \end{array}$$

$$\begin{array}{r} (k) \quad 5 \ 8 \ 4 \ 6 \\ + \ 2 \ 1 \ 1 \ 2 \\ \hline 7 \ 9 \ 5 \ 8 \end{array}$$

$$\begin{array}{r} (l) \quad 6 \ 4 \ 5 \ 8 \\ + \ 3 \ 1 \ 4 \ 1 \\ \hline 9 \ 5 \ 9 \ 9 \end{array}$$

2.

$$\begin{array}{r} (a) \quad 3 \ 0 \ 0 \ 8 \\ + \ 5 \ 1 \ 2 \ 0 \\ \hline 1 \ 0 \ 0 \ 0 \\ \hline 9 \ 1 \ 2 \ 8 \end{array}$$

$$\begin{array}{r} (b) \quad 1 \ 1 \ 3 \ 0 \\ + \ 6 \ 4 \ 2 \ 9 \\ \hline 2 \ 2 \ 0 \ 0 \\ \hline 9 \ 7 \ 5 \ 9 \end{array}$$

$$\begin{array}{r} (c) \quad 2 \ 0 \ 1 \ 2 \\ + \ 5 \ 9 \ 4 \ 2 \\ \hline 1 \ 0 \ 3 \ 4 \\ \hline 8 \ 9 \ 8 \ 8 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 1 \ 3 \ 4 \ 5 \\ \quad 4 \ 0 \ 0 \ 0 \\ + \quad 2 \ 5 \ 5 \ 3 \\ \hline \quad 7 \ 8 \ 9 \ 8 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 2 \ 0 \ 4 \ 3 \\ \quad 3 \ 2 \ 1 \ 4 \\ + \quad 1 \ 5 \ 2 \ 2 \\ \hline \quad 6 \ 7 \ 7 \ 9 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 3 \ 2 \ 1 \ 4 \\ \quad 1 \ 3 \ 4 \ 2 \\ + \quad 2 \ 1 \ 2 \ 1 \\ \hline \quad 6 \ 6 \ 7 \ 7 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 1 \ 6 \ 0 \ 5 \\ \quad 2 \ 1 \ 8 \ 0 \\ + \quad 3 \ 1 \ 1 \ 3 \\ \hline \quad 6 \ 8 \ 9 \ 8 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 2 \ 3 \ 0 \ 6 \\ \quad 1 \ 2 \ 8 \ 1 \\ + \quad 3 \ 3 \ 1 \ 1 \\ \hline \quad 6 \ 8 \ 9 \ 8 \end{array}$$

3.

$$\begin{array}{r} \text{(a)} \quad 2 \ 1 \ 3 \ 6 \\ \quad 4 \ 4 \ 2 \ 1 \\ + \quad 2 \ 2 \ 2 \ 2 \\ \hline \quad 8 \ 7 \ 7 \ 9 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 2 \ 4 \ 2 \ 5 \\ \quad 1 \ 2 \ 3 \ 2 \\ + \quad 3 \ 0 \ 4 \ 1 \\ \hline \quad 6 \ 6 \ 9 \ 8 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 5 \ 0 \ 9 \ 6 \\ + \quad 2 \ 9 \ 0 \ 3 \\ \hline \quad 7 \ 9 \ 9 \ 9 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 3 \ 0 \ 4 \ 5 \\ + \quad 5 \ 9 \ 3 \ 2 \\ \hline \quad 8 \ 9 \ 7 \ 7 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 1 \ 2 \ 3 \ 4 \\ \quad 4 \ 3 \ 2 \ 1 \\ + \quad 4 \ 4 \ 4 \ 4 \\ \hline \quad 5 \ 9 \ 9 \ 9 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \overset{\textcircled{0}}{4} \ 3 \ 2 \ 1 \\ \quad 1 \ 5 \ 0 \ 6 \\ + \quad 3 \ 2 \ 1 \ 2 \\ \hline \quad 9 \ 0 \ 3 \ 9 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 5 \ 1 \ 7 \ 5 \\ + \quad 1 \ 4 \ 2 \ 3 \\ \hline \quad 6 \ 5 \ 9 \ 8 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 3 \ 1 \ 5 \ 2 \\ + \quad 4 \ 2 \ 3 \ 4 \\ \hline \quad 7 \ 3 \ 8 \ 6 \end{array}$$

Mental Maths

$$\begin{array}{r} \text{1.} \quad 8 \ \overset{\textcircled{0}}{5} \ 4 \ 1 \\ + \quad 8 \ 1 \ 9 \ 5 \\ \hline \quad 16 \ 7 \ 3 \ 6 \end{array}$$

$$\begin{array}{r} \text{2.} \quad 6 \ 0 \ 1 \ 5 \\ + \quad 4 \ 2 \ 4 \ 3 \\ \hline \quad 10 \ 2 \ 5 \ 8 \end{array}$$

$$\begin{array}{r} \text{3.} \quad 3 \ 4 \ 6 \ 5 \\ + \quad 4 \ 3 \ 1 \ 4 \\ \hline \quad 7 \ 7 \ 7 \ 9 \end{array}$$

$$\begin{array}{r} \text{4.} \quad 7 \ 5 \ 0 \ 0 \\ + \quad 3 \ 3 \ 2 \ 2 \\ \hline \quad 10 \ 8 \ 2 \ 2 \end{array}$$

E.X. 3.2

$$\begin{array}{r} \text{1. (a)} \quad \overset{\textcircled{0}}{5} \quad \overset{\textcircled{0}}{7} \quad \overset{\textcircled{0}}{6} \quad 8 \\ + \quad 3 \quad 8 \quad 8 \quad 7 \\ \hline 9 \quad 6 \quad 5 \quad 5 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \overset{\textcircled{0}}{4} \quad 5 \quad 0 \quad 0 \\ + \quad 2 \quad 5 \quad 3 \quad 9 \\ \hline 7 \quad 0 \quad 3 \quad 9 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 3 \quad 1 \quad 7 \quad 2 \\ + \quad 4 \quad 2 \quad 0 \quad 9 \\ \hline 7 \quad 3 \quad 8 \quad 1 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 5 \quad 4 \quad 1 \quad 7 \\ + \quad 2 \quad 4 \quad 1 \quad 6 \\ \hline 7 \quad 8 \quad 3 \quad 3 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad 3 \quad \overset{\textcircled{0}}{2} \quad \overset{\textcircled{0}}{5} \quad 7 \\ + \quad 4 \quad 4 \quad 5 \quad 6 \\ \hline 7 \quad 7 \quad 1 \quad 3 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad 6 \quad 5 \quad \overset{\textcircled{0}}{5} \quad 5 \\ + \quad 2 \quad 3 \quad 3 \quad 5 \\ \hline 8 \quad 8 \quad 9 \quad 0 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 6 \quad \overset{\textcircled{0}}{1} \quad 8 \quad 6 \\ + \quad 2 \quad 1 \quad 4 \quad 1 \\ \hline 8 \quad 3 \quad 2 \quad 7 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 3 \quad 1 \quad \overset{\textcircled{0}}{5} \quad 8 \\ + \quad 5 \quad 1 \quad 3 \quad 2 \\ \hline 8 \quad 2 \quad 9 \quad 0 \end{array}$$

$$\begin{array}{r} \text{2. (a)} \quad \overset{\textcircled{0}}{4} \quad 5 \quad \overset{\textcircled{0}}{6} \quad 9 \\ + \quad 8 \quad 7 \quad 2 \quad 5 \\ \hline 13 \quad 2 \quad 9 \quad 4 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \overset{\textcircled{0}}{9} \quad 0 \quad \overset{\textcircled{0}}{5} \quad 4 \\ + \quad 2 \quad 8 \quad 2 \quad 9 \\ \hline \quad \quad \quad 8 \quad 6 \\ \hline 11 \quad 9 \quad 6 \quad 9 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 3 \quad 4 \quad 4 \quad 7 \\ + \quad 4 \quad 0 \quad 1 \quad 3 \\ \hline 7 \quad 4 \quad 6 \quad 0 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \overset{\textcircled{0}}{6} \quad \overset{\textcircled{0}}{6} \quad \overset{\textcircled{0}}{6} \quad 5 \\ + \quad 2 \quad 3 \quad 4 \quad 9 \\ \hline 9 \quad 0 \quad 1 \quad 4 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 2 \quad 6 \quad 1 \quad 4 \\ + \quad 6 \quad 3 \quad 2 \quad 6 \\ \hline 8 \quad 9 \quad 4 \quad 0 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \overset{\textcircled{0}}{3} \quad 9 \quad \overset{\textcircled{0}}{0} \quad 7 \\ + \quad 5 \quad 1 \quad 0 \quad 5 \\ \hline 9 \quad 0 \quad 1 \quad 2 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \overset{\textcircled{0}}{4} \quad \overset{\textcircled{0}}{8} \quad \overset{\textcircled{0}}{7} \quad 6 \\ + \quad 2 \quad 6 \quad 3 \quad 5 \\ \hline 7 \quad 5 \quad 1 \quad 1 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \overset{\textcircled{0}}{3} \quad \overset{\textcircled{0}}{3} \quad \overset{\textcircled{0}}{3} \quad 9 \\ + \quad 3 \quad 9 \quad 9 \quad 8 \\ \hline 7 \quad 3 \quad 3 \quad 7 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad \overset{\textcircled{0}}{2} \quad 9 \quad \overset{\textcircled{0}}{1} \quad 3 \\ + \quad 6 \quad 1 \quad 4 \quad 8 \\ \hline 9 \quad 0 \quad 6 \quad 1 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 4 \quad 1 \quad \overset{\textcircled{0}}{0} \quad 9 \\ + \quad 3 \quad 1 \quad 2 \quad 2 \\ \hline 7 \quad 2 \quad 3 \quad 1 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 9 \quad \overset{\textcircled{0}}{0} \quad \overset{\textcircled{0}}{4} \quad 6 \\ - \quad 3 \quad 8 \quad 7 \quad 6 \\ \hline 12 \quad 9 \quad 2 \quad 2 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \overset{\textcircled{2}}{8} \quad \overset{\textcircled{0}}{3} \quad \overset{\textcircled{0}}{4} \quad 5 \\ 2 \quad 8 \quad 7 \quad 6 \\ + \quad 9 \quad 1 \quad 3 \\ \hline 12 \quad 1 \quad 3 \quad 4 \end{array}$$

$$\begin{array}{r}
 \text{(e)} \quad \begin{array}{cccc}
 \textcircled{2} & \textcircled{1} & \textcircled{1} & \\
 4 & 2 & 1 & 5 \\
 & 9 & 7 & 6 \\
 + & 2 & 8 & 7 & 3 \\
 \hline
 & 8 & 0 & 6 & 4
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f)} \quad \begin{array}{cccc}
 \textcircled{1} & \textcircled{1} & \textcircled{1} & \\
 7 & 5 & 2 & 1 \\
 & 9 & 1 & 3 & 6 \\
 + & 2 & 8 & 7 & 4 \\
 \hline
 & 19 & 5 & 3 & 1
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(g)} \quad \begin{array}{cccc}
 & \textcircled{1} & \textcircled{1} & \\
 4 & 0 & 5 & 6 \\
 & 3 & 0 & 0 & 8 \\
 + & 1 & 2 & 9 & 7 \\
 \hline
 & 8 & 3 & 6 & 1
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(h)} \quad \begin{array}{cccc}
 \textcircled{1} & \textcircled{1} & \textcircled{1} & \\
 4 & 6 & 2 & 9 \\
 & 8 & 7 & 3 & 0 \\
 + & 1 & 4 & 9 & 6 \\
 \hline
 & 14 & 8 & 5 & 5
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(i)} \quad \begin{array}{cccc}
 \textcircled{1} & \textcircled{2} & \textcircled{1} & \\
 4 & 7 & 9 & 3 \\
 & 1 & 0 & 8 & 5 \\
 + & & 9 & 4 & 6 \\
 \hline
 & 6 & 8 & 2 & 4
 \end{array}
 \end{array}$$

Beat the clock

1.

$$\begin{array}{r}
 2 \ 4 \ 3 \ 3 \\
 +1 \ 1 \ 2 \ 1 \\
 \hline
 3 \ 5 \ 5 \ 4
 \end{array}$$

$$\begin{array}{r}
 1 \ 2 \ 6 \ 1 \\
 + 1 \ 3 \ 2 \ 6 \\
 \hline
 2 \ 5 \ 8 \ 7
 \end{array}$$

$$\begin{array}{r}
 3 \ 4 \ 9 \ 3 \\
 + 3 \ 1 \ 0 \ 2 \\
 \hline
 6 \ 5 \ 9 \ 5
 \end{array}$$

Metal Maths

1.

$$\begin{array}{r}
 1 \ 3 \ 3 \ 9 \\
 + \quad \quad 0 \\
 \hline
 1 \ 3 \ 3 \ 9
 \end{array}$$

$$\begin{array}{r}
 1 \ 0 \ 2 \ 0 \\
 + 1 \ 0 \ 3 \ 0 \\
 \hline
 2 \ 0 \ 5 \ 0
 \end{array}$$

$$\begin{array}{r}
 0 \ 0 \ 0 \ 0 \\
 + 3 \ 6 \ 0 \ 4 \\
 \hline
 3 \ 6 \ 0 \ 4
 \end{array}$$

E.X. 3.3

1. (a) $7646 + 2432 = 2432 + 7646$

(b) $0 + 2324 = 2324 + 0$

(c) $9999 + 4403 = 4403 + 9999$

(d) $8156 + 5163 + 8156 + 5163$

(e) $3873 + 3954 + 7321 = 3873 + 7321 + 3954$

(f) $152 + 3346 + 5097 = 152 + 3346 + 5097$

(g) $3819 + 2234 + 5761 = 5761 + 3819 + 2234$

(h) $697 + 834 + 763 = 763 + 834 + 697$

$$(i) 3818 + 2570 + 4893 = 2570 + 4893 + 3818$$

2. (a) $676 + 921 + 915 = 2512$

$$921 + 676 + 915 = 2512; 915 + 921 + 676 = 2512$$

(b) $513 + 309 + 785 = 1607$

$$309 + 785 + 513 = 1607; 513 + 785 + 309 = 1607$$

(c) $8325 + 5718 + 4451 = 18494$

$$5718 + 8325 + 4451 = 18494$$

$$4451 + 5718 + 8325 = 18494$$

(d) $5692 + 5570 + 793 = 12055$

$$5570 + 5692 + 793 = 12055; 793 + 5570 + 5692 = 12055$$

(e) $297 + 9056 + 8743 = 17996$

$$9056 + 8743 + 297 = 17996; 8743 + 297 + 9056 = 17996$$

Beat the Clock

1. $1247 + 123 = 1370$; $535 + 835 = 1370$

2. $344 + 215 = 559$; $213 + 346 = 559$

E.X. 3.4

1. Bananas sold in a day = 3561

Apples sold in a day = + 2234

Total fruit sold in a day = $\overline{5795}$

\therefore 5795 fruits were sold in a day

2. Tickets sold in first half = $\overset{\textcircled{0}}{3}\overset{\textcircled{0}}{5}\overset{\textcircled{0}}{6}3$

Tickets sold in second half = 2597

\therefore total tickets sold = $\overline{6160}$

\therefore Total population of three villages

\therefore 6160 tickets were sold altogether

3. Population of first village = $\overset{\textcircled{0}}{4}\overset{\textcircled{0}}{6}\overset{\textcircled{0}}{3}7$

Population of second village 5298

Population of third village 6438

\therefore Total population of three villages = 16373

\therefore Total population of three villages = $\overline{16373}$

$$\begin{array}{r}
 \text{4. Toys produced in first month} \quad = \overset{\textcircled{1}}{3} \overset{\textcircled{1}}{7} \overset{\textcircled{1}}{6} \overset{\textcircled{1}}{9} \\
 \text{Toys produced in second month} \quad = 4526 \\
 \text{Total toys produced} \quad \quad \quad \underline{\underline{8295}} \\
 \therefore 8295 \text{ toys were produced}
 \end{array}$$

$$\begin{array}{r}
 \text{5. Number of rice bags} = \overset{\textcircled{1}}{3} \overset{\textcircled{2}}{9} 43 \\
 \text{Number of wheat bags} = 4085 \\
 \text{Number of barley bags} = 7791 \\
 \underline{\underline{15819}}
 \end{array}$$

\therefore 15819 bags are there in the granary

Sum up

$ \begin{array}{r} \text{(a)} \quad 4135 \\ + 3324 \\ \hline 7459 \end{array} $	$ \begin{array}{r} \text{(b)} \quad 5226 \\ + 3421 \\ \hline 8647 \end{array} $	$ \begin{array}{r} \text{(c)} \quad \overset{\textcircled{1}}{6} 321 \\ + 2731 \\ \hline 9052 \end{array} $
$ \begin{array}{r} \text{(d)} \quad 8153 \\ + 1244 \\ \hline 9397 \end{array} $	$ \begin{array}{r} \text{(e)} \quad 7243 \\ + 2122 \\ \hline 9365 \end{array} $	$ \begin{array}{r} \text{(f)} \quad 6372 \\ + 3424 \\ \hline 9796 \end{array} $
$ \begin{array}{r} \text{(g)} \quad 2152 \\ + 4347 \\ \hline 6499 \end{array} $	$ \begin{array}{r} \text{(h)} \quad 3542 \\ + 5257 \\ \hline 8799 \end{array} $	

2.

$ \begin{array}{r} \text{(a)} \quad \overset{\textcircled{1}}{3} \overset{\textcircled{1}}{5} \overset{\textcircled{1}}{0} \overset{\textcircled{1}}{7} \\ + 4993 \\ \hline 8500 \end{array} $	$ \begin{array}{r} \text{(b)} \quad \overset{\textcircled{1}}{5} \overset{\textcircled{1}}{5} \overset{\textcircled{1}}{9} \overset{\textcircled{1}}{9} \\ + 3402 \\ \hline 9001 \end{array} $
$ \begin{array}{r} \text{(c)} \quad \overset{\textcircled{1}}{6} \overset{\textcircled{1}}{3} \overset{\textcircled{1}}{1} 4 \\ + 4791 \\ \hline 11105 \end{array} $	$ \begin{array}{r} \text{(d)} \quad \overset{\textcircled{1}}{4} \overset{\textcircled{1}}{1} 41 \\ + 5938 \\ \hline 10079 \end{array} $

$$3. \text{ Money saved in February} = \overset{\textcircled{0}}{\overset{\textcircled{0}}{\textcircled{2}}} \text{ ₹ } 3156$$

$$\text{Money saved in March} = \text{₹ } 5629$$

$$\text{Money saved in April} = \text{₹ } 495$$

$$\underline{\underline{= \text{₹ } 9280}}$$

$$\therefore \text{ Total money saved} = \text{₹ } 9280$$

$$4. \quad \text{Greater Number} = 8321$$

$$\text{Smaller Number} = 7625$$

$$\text{Sum of the 2 numbers} = \underline{\underline{15946}}$$

$$\therefore \text{ Answer } 15946$$

$$5. \text{ (a) (iv) } \quad \text{(b) (ii) } \quad \text{(c) (i) } \quad \text{(d) (ii) } \quad \text{(e) (i)}$$

CHAPTER 04

E.X. 4.1

1.

$$\begin{array}{r} \text{(a)} \quad 5457 \\ - \quad 1134 \\ \hline \quad 4323 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 4946 \\ - \quad 2515 \\ \hline \quad 2431 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 5786 \\ - \quad 3153 \\ \hline \quad 2633 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 6863 \\ - \quad 4142 \\ \hline \quad 2721 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 7476 \\ - \quad 3123 \\ \hline \quad 4353 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 8946 \\ - \quad 5525 \\ \hline \quad 3421 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 7897 \\ - \quad 2183 \\ \hline \quad 5714 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 9469 \\ - \quad 6213 \\ \hline \quad 3256 \end{array}$$

$$\begin{array}{r} \text{(i)} \quad 9462 \\ - \quad 3321 \\ \hline \quad 6141 \end{array}$$

$$\begin{array}{r} \text{(j)} \quad 8516 \\ - \quad 4303 \\ \hline \quad 4213 \end{array}$$

$$\begin{array}{r} \text{(k)} \quad 6985 \\ - \quad 4732 \\ \hline \quad 2253 \end{array}$$

$$\begin{array}{r} \text{(l)} \quad 9635 \\ - \quad 7225 \\ \hline \quad 2410 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 7683 \\ - 5241 \\ \hline 2442 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad 8945 \\ - 6032 \\ \hline 2913 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 8326 \\ - 7305 \\ \hline 1021 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 9425 \\ - 5112 \\ \hline 4313 \end{array}$$

2. (a) $2856 - 1142 = 1714$

(b) $3942 - 1501 = 2441$

(c) $4520 - 2768 = 1752$

(d) $8906 - 104 = 8802$

(e) $7442 - 5425 = 2017$

(f) $3874 - 2232 = 1642$

(g) $485 - 23 = 462$

(h) $7976 - 823 = 7153$

Beat the Clock

1.
$$\begin{array}{r} ^4 ^{16} \\ 756 \\ - 447 \\ \hline 309 \end{array}$$

2.
$$\begin{array}{r} ^{317} \\ 847 \\ - 338 \\ \hline 509 \end{array}$$

3.
$$\begin{array}{r} ^2 ^{15} \\ 535 \\ - 317 \\ \hline 218 \end{array}$$

4.
$$\begin{array}{r} ^7 ^{10} \\ 580 \\ - 256 \\ \hline 324 \end{array}$$

5.
$$\begin{array}{r} ^7 ^{12} \\ 582 \\ - 256 \\ \hline 326 \end{array}$$

6.
$$\begin{array}{r} ^{214} \\ 934 \\ - 406 \\ \hline 528 \end{array}$$

7.
$$\begin{array}{r} ^4 ^{18} \\ 658 \\ - 329 \\ \hline 329 \end{array}$$

8.
$$\begin{array}{r} ^1 ^{14} \\ 824 \\ - 609 \\ \hline 215 \end{array}$$

E.X. 4.2

1.

(a)
$$\begin{array}{r} ^5 ^{11} ^{11} \\ 5621 \\ - 2432 \\ \hline 3189 \end{array}$$

(b)
$$\begin{array}{r} ^4 ^{13} \\ 6053 \\ - 2046 \\ \hline 4007 \end{array}$$

(c)
$$\begin{array}{r} ^4 ^{13} ^{13} \\ 7543 \\ - 3245 \\ \hline 4298 \end{array}$$

(d)
$$\begin{array}{r} ^6 ^{15} ^{10} \\ 6760 \\ - 2267 \\ \hline 4493 \end{array}$$

(e)
$$\begin{array}{r} ^4 ^{15} ^{11} \\ 4561 \\ - 1397 \\ \hline 3164 \end{array}$$

(f)
$$\begin{array}{r} ^7 ^{12} ^{12} \\ 3832 \\ - 3496 \\ \hline 0336 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} ^5 ^9 ^9 ^{10} \\ 6000 \\ - 2439 \\ \hline 3561 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} ^4 ^9 ^{14} ^{16} \\ 5056 \\ - 2297 \\ \hline 2759 \end{array} \end{array}$$

2. (a) $3456 - 1183 = 2273$

(b) $4901 - 844 = 4057$

(c) $4567 - 2189 = 2378$

(d) $3300 - 2122 = 1178$

(e) $5295 - 917 = 4378$

(f) $5806 - 937 = 4869$

(g) $4851 - 3260 = 1591$

(h) $9532 - 2476 = 7056$

(i) $6592 - 3476 = 3116$

(j) $4000 - 2523 = 1477$

Mental Maths

1.
$$\begin{array}{r} 468 \\ -123 \\ \hline 345 \end{array}$$

2.
$$\begin{array}{r} 895 \\ -673 \\ \hline 222 \end{array}$$

3.
$$\begin{array}{r} 942 \\ -201 \\ \hline 741 \end{array}$$

4.
$$\begin{array}{r} 8752 \\ -3331 \\ \hline 5421 \end{array}$$

E.X. 4.3

1. (a) 7456

(b) 0

(c) 6694

(d) 8496

(e) 100

(f) 100

(g) 0

(h) 0

(i) 9236

(j) 0

2.

Check (a)
$$\begin{array}{r} ^2 ^{12} \\ 8432 \\ -6213 \\ \hline 2219 \end{array}$$

Check (b)
$$\begin{array}{r} ^4 ^{10} \\ 4641 \\ +3265 \\ \hline 7906 \end{array}$$

Check (c)
$$\begin{array}{r} ^8 ^{10} \\ 2022 \\ +2142 \\ \hline 4164 \end{array}$$

Check (d)
$$\begin{array}{r} ^7 ^9 ^{10} \\ 7906 \\ -3265 \\ \hline 4641 \end{array}$$

(d) Check
$$\begin{array}{r} ^4 ^{10} \\ 5506 \\ -2230 \\ \hline 3276 \end{array}$$

(e) Check
$$\begin{array}{r} ^4 ^{10} \\ 5509 \\ -2275 \\ \hline 3234 \end{array}$$

(f) Check
$$\begin{array}{r} ^7 ^9 ^{10} \\ 8005 \\ -3224 \\ \hline 4771 \end{array}$$

(g) Check
$$\begin{array}{r} ^7 ^{11} ^{13} \\ 9823 \\ -6239 \\ \hline 3584 \end{array}$$

(h) Check
$$\begin{array}{r} ^7 ^{10} ^9 ^{14} \\ 8104 \\ -5436 \\ \hline 2668 \end{array}$$

3.

(a)
$$\begin{array}{r} ^{10} ^{10} \\ 7056 \\ - 3834 \\ \hline 3222 \end{array}$$

Check
$$\begin{array}{r} ^1 \\ 3222 \\ - 3834 \\ \hline 7056 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \overset{8}{7} \overset{12}{9} \overset{10}{30} \\ - 4285 \\ \hline 3645 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{1}{3} \overset{1}{6} 45 \\ + 4285 \\ \hline 7930 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \overset{3}{4} \overset{10}{0} \overset{4}{5} \overset{16}{56} \\ - 2237 \\ \hline 1819 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{1}}{1} \overset{\textcircled{1}}{8} 19 \\ + 2237 \\ \hline 4056 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \overset{7}{8} \overset{13}{3} 56 \\ - 3403 \\ \hline 4953 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{0}}{4} 953 \\ + 3403 \\ \hline 8356 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \overset{1}{6} \overset{11}{9} 21 \\ - 3405 \\ \hline 3516 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{0}}{3} 516 \\ + 3405 \\ \hline 6921 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \overset{7}{8} \overset{10}{0} 76 \\ - 5832 \\ \hline 2244 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{0}}{2} 244 \\ + 5832 \\ \hline 8076 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \overset{7}{8} \overset{10}{1} \overset{11}{2} \overset{14}{4} \\ - 5276 \\ \hline 2848 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{0}}{2} \overset{\textcircled{0}}{8} \overset{\textcircled{0}}{4} 8 \\ + 5276 \\ \hline 8124 \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \overset{7}{3} \overset{10}{8} 05 \\ - 2143 \\ \hline 1662 \end{array}$$

$$\begin{array}{r} \text{Check} \\ \overset{\textcircled{0}}{1} 662 \\ + 2143 \\ \hline 3805 \end{array}$$

$$(8) \quad \begin{array}{r} ^7 ^{10} \\ 3490 \\ - 1276 \\ \hline 2214 \end{array}$$

$$\begin{array}{r} \text{Check} \\ ^{\textcircled{0}} \\ 2214 \\ + 1276 \\ \hline 3490 \end{array}$$

E.X. 4.4

1. Total People = $3\overset{3}{4}65$

Number of children = -2284

Number of grown-up = $\underline{1181}$

There were 1181 grown-ups

2. Total kites made = $1\overset{5}{6}\overset{9}{0}$

Number of kites sold = 1375

kites left $\underline{0225}$

\therefore 225 kites were left

3. Houses in the colony = $2\overset{1}{2}\overset{12}{00}$

Houses vacant = -400

House occupied $\underline{1800}$

\therefore 1800 houses are occupied

4. Total books in the library = 3568

Books in English = -3453

Books in Hindi = $\underline{0115}$

115 books were in Hindi

5. Sumit's monthly in come = ₹ 9000

Wife's Monthly income = ₹ $+7000$

Total income = ₹ 16000

Money spend every month = ₹ -12000

\therefore Money save = ₹ $\underline{04000}$

\therefore 4000 were saved

6. Total population of town = 6256

Number of Men = - 4134

∴ Number of women = 2122

∴ 2122 women were there in the town

Sum up

1.

$$\begin{array}{r} \text{(a)} \quad 4 \quad 5 \quad 7 \quad 0 \\ \quad \quad 2 \quad 3 \quad 4 \quad 3 \\ \hline + \quad 2 \quad 2 \quad 2 \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 5 \quad 6 \quad 9 \quad 10 \\ \quad \quad - \quad 3 \quad 2 \quad 4 \quad 8 \\ \hline \quad \quad 2 \quad 4 \quad 4 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 7 \quad 8 \quad 3 \quad 10 \\ \quad \quad - \quad 4 \quad 4 \quad 3 \quad 1 \\ \hline \quad \quad 3 \quad 4 \quad 0 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 8 \quad 2 \quad 2 \quad 10 \\ \quad \quad 6 \quad 1 \quad 1 \quad 6 \\ \hline + \quad 2 \quad 1 \quad 0 \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 3 \quad 7 \quad 10 \quad 5 \\ \quad \quad - \quad 1 \quad 3 \quad 6 \quad 2 \\ \hline \quad \quad 2 \quad 4 \quad 4 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 6 \quad 8 \quad 10 \quad 7 \\ \quad \quad - \quad 3 \quad 2 \quad 3 \quad 4 \\ \hline \quad \quad 3 \quad 6 \quad 7 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 5 \quad 2 \quad 10 \quad 3 \\ \quad \quad - \quad 2 \quad 1 \quad 2 \quad 1 \\ \hline \quad \quad 3 \quad 1 \quad 8 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 7 \quad 7 \quad 10 \quad 6 \\ \quad \quad - \quad 2 \quad 5 \quad 4 \quad 6 \\ \hline \quad \quad 5 \quad 2 \quad 6 \quad 0 \\ \hline \end{array}$$

2.

$$\begin{array}{r} \text{(a)} \quad 3 \quad 5 \quad 5 \quad 14 \\ \quad \quad - \quad 1 \quad 1 \quad 3 \quad 8 \\ \hline \quad \quad 2 \quad 4 \quad 2 \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 4 \quad 7 \quad 8 \quad 12 \\ \quad \quad - \quad 2 \quad 5 \quad 2 \quad 4 \\ \hline \quad \quad 2 \quad 2 \quad 6 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 6 \quad 8 \quad 7 \quad 14 \\ \quad \quad - \quad 2 \quad 3 \quad 2 \quad 6 \\ \hline \quad \quad 4 \quad 5 \quad 5 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 5 \quad 4 \quad 5 \quad 17 \\ \quad \quad - \quad 3 \quad 2 \quad 4 \quad 9 \\ \hline \quad \quad 4 \quad 2 \quad 1 \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 7 \quad 8 \quad 16 \quad 4 \\ \quad \quad - \quad 3 \quad 1 \quad 9 \quad 2 \\ \hline \quad \quad 4 \quad 7 \quad 7 \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 5 \quad 6 \quad 18 \quad 8 \\ \quad \quad 2 \quad 2 \quad 9 \quad 4 \\ \hline \quad \quad 3 \quad 4 \quad 9 \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(g)} \quad 8 \quad 6 \quad 3 \quad 2 \\ \quad \quad - \quad 3 \quad 2 \quad 8 \quad 9 \\ \hline \quad \quad 5 \quad 3 \quad 4 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(h)} \quad 9 \quad 5 \quad 6 \quad 4 \\ \quad \quad - \quad 4 \quad 1 \quad 8 \quad 5 \\ \hline \quad \quad 5 \quad 3 \quad 7 \quad 9 \\ \hline \end{array}$$

3. Number of days in a leap year = 366^5

Number of school days = -218

Number of holidays 148

∴ There were 148 holidays

4. Total Pages $\overset{9\ 10}{600}$

Pages read = - 538

062

She has to read 62 more pages

CHAPTER 05

Activity

1. $9 + 9 + 9 + 9 + 9 + 9 + 9 = 63$

2. $8 + 8 + 8 + 8 + 8 = 40$

3. $6 + 6 + 6 + 6 + 6 + 6 + 6 = 42$

4. $9 + 9 = 18$

5. $4 + 4 + 4 + 4 + 4 + 4 = 24$

Mental Maths

1. $\begin{array}{r} 623 \\ \times 3 \\ \hline 1869 \end{array}$

2. $\begin{array}{r} 711 \\ \times 6 \\ \hline 4266 \end{array}$

3. $\begin{array}{r} 810 \\ \times 3 \\ \hline 2430 \end{array}$

4. $\begin{array}{r} 902 \\ \times 3 \\ \hline 2706 \end{array}$

1. (a) $\begin{array}{r} 5\ \overset{\circ}{2}\ 3 \\ \times 4 \\ \hline 20\ 9\ 2 \end{array}$

(b) $\begin{array}{r} 6\ \overset{1}{0}\ 2 \\ \times 6 \\ \hline 36\ 1\ 2 \end{array}$

(c) $\begin{array}{r} 7\ 0\ 3 \\ \times 3 \\ \hline 21\ 0\ 9 \end{array}$

(d) $\begin{array}{r} 8\ 0\ 1 \\ \times 9 \\ \hline 72\ 0\ 9 \end{array}$

(e) $\begin{array}{r} 6\ 2\ 4 \\ \times 2 \\ \hline 12\ 4\ 8 \end{array}$

(f) $\begin{array}{r} 5\ 3\ 3 \\ \times 2 \\ \hline 10\ 6\ 6 \end{array}$

(g) $\begin{array}{r} \overset{\circ}{4}\ 4\ 1 \\ \times 3 \\ \hline 13\ 2\ 3 \end{array}$

(h) $\begin{array}{r} 5\ \overset{1}{0}\ 5 \\ \times 3 \\ \hline 15\ 1\ 5 \end{array}$

(i) $\begin{array}{r} 42\ 0\ 4 \\ \times 2 \\ \hline 84\ 0\ 8 \end{array}$

(j) $\begin{array}{r} 5\ 22\ 3 \\ \times 3 \\ \hline 15\ 66\ 9 \end{array}$

(k) $\begin{array}{r} 31\ 2\ 0 \\ \times 4 \\ \hline 12\ 4\ 80 \end{array}$

(l) $\begin{array}{r} \overset{\circ}{44}\ \overset{2}{0}\ 6 \\ \times 4 \\ \hline 17\ 6\ 24 \end{array}$

2. (a) 3941

(b) 23808

(c) 16252

(d) 33330

(e) 11835

(f) 26075

(g) 32936

(h) 31465

(i) 36936

(j) 36150

E.X. 5.2

$$\begin{array}{r} 1. \quad 826 \\ \times 10 \\ \hline 8260 \end{array}$$

$$\begin{array}{r} 2. \quad 314 \\ \times 10 \\ \hline 3140 \end{array}$$

$$\begin{array}{r} 3. \quad 542 \\ \times 10 \\ \hline 5420 \end{array}$$

$$\begin{array}{r} 4. \quad 746 \\ \times 10 \\ \hline 7460 \end{array}$$

$$\begin{array}{r} 5. \quad 632 \\ \times 100 \\ \hline 63200 \end{array}$$

$$\begin{array}{r} 6. \quad 886 \\ \times 100 \\ \hline 88600 \end{array}$$

$$\begin{array}{r} 7. \quad 620 \\ \times 100 \\ \hline 62000 \end{array}$$

$$\begin{array}{r} 8. \quad 963 \\ \times 100 \\ \hline 96300 \end{array}$$

$$\begin{array}{r} 9. \quad 533 \\ \times 100 \\ \hline 53300 \end{array}$$

$$\begin{array}{r} 10. \quad 328 \\ \times 100 \\ \hline 32800 \end{array}$$

$$\begin{array}{r} 11. \quad 942 \\ \times 100 \\ \hline 94200 \end{array}$$

$$\begin{array}{r} 12. \quad 666 \\ \times 100 \\ \hline 66600 \end{array}$$

$$\begin{array}{r} 13. \quad 9999 \\ \times 1000 \\ \hline 9999000 \end{array}$$

$$\begin{array}{r} 14. \quad 6624 \\ \times 1000 \\ \hline 6624000 \end{array}$$

$$\begin{array}{r} 15. \quad 5030 \\ \times 1000 \\ \hline 5030000 \end{array}$$

$$\begin{array}{r} 16. \quad 8216 \\ \times 1000 \\ \hline 8216000 \end{array}$$

E.X. 5.3

1. (a) $3 \times 5 \times 4 = 60$

(b) $4 \times 3 \times 5 = 60$

(c) $5 \times 4 \times 3 = 60$

(d) $6 \times 8 \times 5 = 240$

2. (a) $135 \times 0 = 0$

(b) $233 \times 1 = 233$

(c) $10 \times 6 = 6 \times 10$

(d) $7 \times 5 \times 6 = 5 \times 6 \times 7$

(e) $3510 \times 0 = 0$

(f) $4275 \times 1 = 4275$

Activity

$$\begin{array}{r} 1. \quad 43 \\ \times 76 \\ \hline 258 \\ 3010 \\ \hline 3268 \end{array}$$

$$\begin{array}{r} 2. \quad 87 \\ \times 27 \\ \hline 609 \\ 1740 \\ \hline 2349 \end{array}$$

$$\begin{array}{r} 3. \quad 93 \\ \times 52 \\ \hline 186 \\ 4650 \\ \hline 4836 \end{array}$$

$$\begin{array}{r} 4. \quad 782 \\ \times 48 \\ \hline 6256 \\ 31280 \\ \hline 37536 \end{array}$$

E.X. 5.4

$$\begin{array}{r} 1. \quad 543 \\ \times 12 \\ \hline 1086 \\ 5430 \\ \hline 6516 \end{array}$$

$$\begin{array}{r} 2. \quad 609 \\ \times 24 \\ \hline 2436 \\ 12180 \\ \hline 14616 \end{array}$$

$$\begin{array}{r} 3. \quad 419 \\ \times 26 \\ \hline 2514 \\ 8380 \\ \hline 10894 \end{array}$$

$$\begin{array}{r} 4. \quad 642 \\ \times 19 \\ \hline 5778 \\ 6420 \\ \hline 12198 \end{array}$$

$$\begin{array}{r} 5. \quad 605 \\ \times 85 \\ \hline 3025 \\ 48400 \\ \hline 51425 \end{array}$$

$$\begin{array}{r} 6. \quad 842 \\ \times 32 \\ \hline 1684 \\ 25260 \\ \hline 26944 \end{array}$$

$$\begin{array}{r} 7. \quad 767 \\ \times 47 \\ \hline 5369 \\ 30680 \\ \hline 36049 \end{array}$$

$$\begin{array}{r} 8. \quad 593 \\ \times 87 \\ \hline 4051 \\ 47440 \\ \hline 51491 \end{array}$$

$$\begin{array}{r} 9. \quad 753 \\ \times 46 \\ \hline 4518 \\ 30120 \\ \hline 34638 \end{array}$$

$$\begin{array}{r} 10. \quad 850 \\ \times 49 \\ \hline 7650 \\ 34000 \\ \hline 41650 \end{array}$$

$$\begin{array}{r} 11. \quad 906 \\ \times 29 \\ \hline 8154 \\ 1812 \\ \hline 9966 \end{array}$$

$$\begin{array}{r} 12. \quad 804 \\ \times 25 \\ \hline 4020 \\ 16080 \\ \hline 20100 \end{array}$$

Mental Maths

2. $40 \times 7 + 6 \times 7$

3. $70 \times 4; + 2 \times 4$

4. $80 \times 6 + 1 \times 6$

Activity

$42 \times 14 = 588; 40 \times 10 = 400$

The answer should be more than 400

$40 \times 14 = 588$

E.X. 5.5

1. (a) 34×24 34

Round 34 up to 30 $\times 24$

Round 24 up to 20 126

30×20 680

$= 600$ 806

The answer should be more than 600 but less than (40×30) 1200

(b) 52×32 52

$\times 32$

Round 52 up to 50 104

Round 32 up to 30 1560

$50 \times 30 = 1500$ 1664

The answer should be more than 1500

but less than (60×40) 2400

(c) 76×28 76

Round 76 up to 80 $\times 28$

Round 28 up to 30 608

$80 \times 30 = 2400$ 1520

2128

The answer should be less than 2400

(d) 42×45 42

Round 42 up to 40 $\times 45$

Round 45 up to 50 210

$40 \times 50 = 2000$ 1680

1890

The answer should be less than 2000

(e) 55×25 55

Round 55 up to 50 $\times 25$

Round 25 up to 30 275

1100

$50 \times 30 = 1500$ 1375

The answer should be less than 1500

$$(f) 54 \times 43 \qquad 54$$

$$\text{Round 54 up to 50} \quad \times 43$$

$$\text{Round 43 up to 40} \quad 162$$

$$\underline{2160}$$

$$50 \times 40 = 2000 \quad \underline{2322}$$

The answer should be more than 2000 but less than (60×50) 3000

$$(g) 29 \times 35 \qquad 29$$

$$\text{Round 29 up to 30} \quad \times 35$$

$$\text{Round 35 up to 40} \quad \overset{\textcircled{0}}{1} 45$$

$$870$$

$$30 \times 40 = 1200 \quad \underline{1015}$$

The answer should be less than 1200

$$(h) 46 \times 44 \qquad 46$$

$$\text{Round 46 up to 50} \quad \times 44$$

$$\text{Round 44 up to 40} \quad 184$$

$$50 \times 40 = 2000 \quad 1840$$

$$\underline{2024}$$

The answer should be more than 2000

$$(i) 47 \times 26 \qquad 47$$

$$\text{Round 47 up to 50} \quad \times 26$$

$$\text{Round 26 up to 30} \quad 282$$

$$940$$

$$50 \times 30 = 1500 \quad \underline{1222}$$

The answer should be less than 1500

$$(j) 67 \times 24 \qquad 67$$

$$\text{Round 67 up to 70} \quad \times 24$$

$$\text{Round 24 up to 20} \quad 268$$

$$70 \times 20 = 1400 \quad 1340$$

$$\underline{1608}$$

The answer should be more than 1400

$$\begin{array}{r}
 \text{(k) } 47 \times 36 \qquad \qquad \qquad 47 \\
 \text{Round 47 up to 50} \qquad \qquad \times 36 \\
 \qquad \qquad \qquad \qquad \qquad \qquad \underline{282} \\
 \text{Round 36 up to 40} \qquad \qquad \underline{1410} \\
 50 \times 40 = 2000 \qquad \qquad \underline{1692}
 \end{array}$$

The answer should be less than 2000

$$\begin{array}{r}
 \text{(l) } 60 \times 25 \qquad \qquad \qquad 66 \\
 \text{Round 66 up to 70} \qquad \qquad \times 25 \\
 \text{Round 25 up to 30} \qquad \qquad \underline{330} \\
 70 \times 30 = 2100 \qquad \qquad \underline{1320} \\
 \qquad \qquad \qquad \qquad \qquad \underline{1650}
 \end{array}$$

The answer should be less than 2100

2. (a) $ \begin{array}{r} 73 \rightarrow 70 \\ \times 36 \rightarrow 40 \\ \hline 438 \qquad \underline{2800} \\ 2190 \\ \hline 2628 \end{array} $	(b) $ \begin{array}{r} 39 \rightarrow 40 \\ \times 27 \rightarrow 30 \\ \hline 273 \qquad \underline{1200} \\ 780 \\ \hline 1053 \end{array} $
---	---

(c) $ \begin{array}{r} 64 \rightarrow 60 \\ \times 69 \rightarrow 70 \\ \hline 576 \qquad \underline{4200} \\ \textcircled{0} \\ 3840 \\ \hline 4416 \end{array} $	(d) $ \begin{array}{r} 31 \rightarrow 30 \\ \times 12 \rightarrow 10 \\ \hline 62 \qquad \underline{300} \\ 310 \\ \hline 372 \end{array} $
--	--

(e) $ \begin{array}{r} 68 \rightarrow 70 \\ \times 45 \rightarrow 50 \\ \hline \textcircled{1} 340 \qquad \underline{3500} \\ 2720 \\ \hline 3060 \end{array} $	(f) $ \begin{array}{r} 83 \rightarrow 80 \\ \times 74 \rightarrow 70 \\ \hline \textcircled{1} 332 \qquad \underline{5600} \\ 5810 \\ \hline 6142 \end{array} $
--	--

3. (a) $ \begin{array}{r} 563 \rightarrow 600 \\ \times 9 \rightarrow 9 \\ \hline 5067 \qquad \underline{5400} \end{array} $	(b) $ \begin{array}{r} 772 \rightarrow 800 \\ \times 3 \rightarrow 3 \\ \hline 2316 \qquad \underline{2400} \end{array} $
--	---

(c) $ \begin{array}{r} 976 \rightarrow 1000 \\ \times 4 \rightarrow 4 \\ \hline 3904 \qquad \underline{4000} \end{array} $	(d) $ \begin{array}{r} 892 \rightarrow 900 \\ \times 4 \rightarrow 4 \\ \hline 3568 \qquad \underline{3600} \end{array} $
--	---

(e) $ \begin{array}{r} 617 \rightarrow 600 \\ \times 9 \rightarrow 9 \\ \hline 5553 \qquad \underline{5400} \end{array} $	(f) $ \begin{array}{r} 550 \rightarrow 500 \\ \times 2 \rightarrow 2 \\ \hline 1100 \qquad \underline{1000} \end{array} $
---	---

E.X. 5.6

1. cost of 1 toy = ₹ 95

cost of 8 toys = 95×8

$$= \underline{\underline{₹ 760}}$$

Answer = ₹ 760

2. Flowers in one plant = 18

Flowers in 35 plants = 18×35

18

$\times 35$

① 90

540

630

∴ Answer = 630 flowers

3. Songs recorded in 1CD = 25

Songs recorded in 75 CDs = 75×25

75

$\times 25$

375

1500

1875

Answer = 1875 songs in 75 CDs

4. Age of mother = 11×4

$$= \underline{\underline{44}} \text{ years}$$

∴ Age of mother is 44 years

5. Weight of garbage bag in 1 day = 75 pounds next line

Weight of garbage in 7 days = $75 \times 7 = 525$ pounds

Answer 525 pounds

6. Cookies in each bag = 29

Cookies in 57 bags = 29×57

$$\begin{array}{r}
 29 \\
 \times 57 \\
 \hline
 203 \\
 1450 \\
 \hline
 \underline{1653}
 \end{array}$$

Answer = 1653 cookies

7. Number of butterflies = 97

Black dots in each butterfly = 16

Total number of dots = 97×16

$$\begin{array}{r}
 97 \\
 \times 16 \\
 \hline
 582 \\
 970 \\
 \hline
 \underline{1552}
 \end{array}$$

\therefore 97 Interfiles have 1552 dots

8. Number of birds = 86

\therefore Number of feet = 86×2

$$= \underline{172} \text{ feet}$$

172 feet are there on the two branches of the tree.

Activity

$\begin{array}{r} 25 \\ \times 9 \\ \hline \underline{225} \end{array}$	$\begin{array}{r} 40 \\ \times 2 \\ \hline \underline{80} \end{array}$	$\begin{array}{r} 15 \\ \times 5 \\ \hline \underline{75} \end{array}$	$\begin{array}{r} 16 \\ \times 4 \\ \hline \underline{64} \end{array}$	$\begin{array}{r} 24 \\ \times 3 \\ \hline \underline{72} \end{array}$	$\begin{array}{r} 21 \\ \times 3 \\ \hline \underline{63} \end{array}$
---	--	--	--	--	--

$\begin{array}{r} 20 \\ \times 3 \\ \hline \underline{60} \end{array}$	$\begin{array}{r} 32 \\ \times 2 \\ \hline \underline{64} \end{array}$	$\begin{array}{r} 11 \\ \times 6 \\ \hline \underline{66} \end{array}$
--	--	--

Sum up

1. (a) $95 \times 4 = 380$

(b) $46 \times 2 = 92$

(c) $64 \times 3 = 192$

(d) $20 \times 6 = 120$

(e) $52 \times 5 = 260$

(f) $36 \times 7 = 252$

(g) $243 \times 2 = 486$

(h) $540 \times 2 = 1080$

2. (a) $4 \times 15 = 15 \times 4$ (b) $10 \times 18 = 18 \times 10$
 (c) $7 \times 19 = 19 \times 7$ (d) $325 \times 45 = 45 \times 325$
 (e) $985 \times 563 = 563 \times 985$
 (f) $214 \times 731 \times 212 = 212 \times 214 \times 731$
3. (a) $3 \times 4 \times 20 = 240$ (b) $3 \times 40 \times 20 = 2400$
 (c) $30 \times 40 \times 20 = 24000$ (d) $8 \times 20 \times 30 = 4800$
 (e) $20 \times 70 \times 50 = 70000$ (f) $800 \times 2 \times 60 = 96000$
 (g) $150 \times 20 \times 50 = 150000$ (h) $20 \times 90 \times 50 = 90000$
 (i) $40 \times 20 \times 90 = 72000$ (j) $40 \times 300 \times 20 = 240000$
 (k) $30 \times 20 \times 60 = 36000$ (l) $70 \times 70 \times 20 = 98000$

4. (a) Number of page = 32
 Stamps on each page = 12
 \therefore Total stamps = 32×12
 $= \underline{384}$ stamps

$$\begin{array}{r} 32 \\ \times 12 \\ \hline 64 \\ 320 \\ \hline 384 \end{array}$$

Answer 384 stamps

- (b) Number of piles = 15
 Envelopes stacked in one pile = 50
 Number of envelopes = 50×15

$$\begin{array}{r} 15 \\ \times 50 \\ \hline 750 \end{array}$$

\therefore Ans. = 750 envelopes

- (c) Number of beads in one string = 70
 Number of strings = 21
 total beads = 21×70

$$\begin{array}{r} 21 \\ \times 70 \\ \hline 1470 \end{array}$$

Answer = 1470 beads

(d) Cost of 1 school bags = ₹ 175

Cost of 25 bags = 175×25

$$\begin{array}{r} 175 \\ \times 25 \\ \hline 875 \\ \textcircled{1} \\ 3500 \\ \hline 4375 \end{array}$$

5. (a) (ii)

(b) (iii)

(c) (iii)

(d) (iv)

CHAPTER 6

Activity

1. $55 \div 5 = 11$

$$\begin{array}{r} 55 \\ - 5 \dots (1) \\ \hline 50 \\ - 5 \dots (2) \\ \hline 45 \\ - 5 \dots (3) \\ \hline 40 \\ - 5 \dots (4) \\ \hline 35 \\ - 5 \dots (5) \\ \hline 30 \\ - 5 \dots (6) \\ \hline 25 \\ - 5 \dots (7) \\ \hline 20 \end{array}$$

2. $70 \div 10 = 7$

$$\begin{array}{r} 70 \\ - 10 \dots (1) \\ \hline 60 \\ - 10 \dots (2) \\ \hline 50 \\ - 10 \dots (3) \\ \hline 40 \\ - 10 \dots (4) \\ \hline 30 \\ - 10 \dots (5) \\ \hline 20 \\ - 10 \dots (6) \\ \hline 10 \\ - 10 \dots (7) \\ \hline 0 \end{array}$$

$$\begin{array}{r}
 \underline{-5}\dots(8) \\
 15 \\
 \underline{-5}\dots(9) \\
 10 \\
 \underline{-5}\dots(10) \\
 5 \\
 \underline{-5}\dots(11) \\
 0
 \end{array}$$

Activity

1. $17 \div 3 = 5$ groups of 3, remainder 2
2. $22 \div 4 = 5$ groups of 4, remainder 2
3. $27 \div 5 = 5$ groups of 5, remainder 2
4. $38 \div 6 = 6$ groups of 6, remainder 2
5. $50 \div 7 = 7$ groups of 7, remainder 1

E.X. 6.1

$$\begin{array}{r}
 \mathbf{1. (a)} \quad 55 \div 9 \\
 55 \\
 \underline{-9}\dots(1) \\
 46 \\
 \underline{-9}\dots(2) \\
 37 \\
 \underline{-9}\dots(3) \\
 28 \\
 \underline{-9}\dots(4) \\
 19 \\
 \underline{-9}\dots(5) \\
 10 \\
 \underline{-9}\dots(6) \\
 1
 \end{array}$$

Quotient = 6
 Remainder = 1

$$\begin{array}{r}
 \text{(b)} \quad 74 \div 12 \\
 74 \\
 \underline{-12 \dots (1)} \\
 62 \\
 \underline{-12 \dots (2)} \\
 50 \\
 \underline{-12 \dots (3)} \\
 38 \\
 \underline{-12 \dots (4)} \\
 26 \\
 \underline{-12 \dots (5)} \\
 14 \\
 \underline{-12 \dots (6)} \\
 2
 \end{array}$$

Quotient = 72
 Remainder = 2

$$\begin{array}{r}
 \text{(c)} \quad 144 \div 16 \\
 144 \\
 \underline{-16 \dots (1)} \\
 128 \\
 \underline{-16 \dots (2)} \\
 112 \\
 \underline{-16 \dots (3)} \\
 96 \\
 \underline{-16 \dots (4)} \\
 80 \\
 \underline{-16 \dots (5)} \\
 64 \\
 \underline{-16 \dots (6)} \\
 48 \\
 \underline{-16 \dots (7)} \\
 32
 \end{array}$$

$$\begin{array}{r}
 \text{(b)} \quad 90 \div 11 \\
 90 \\
 \underline{-11 \dots (1)} \\
 79 \\
 \underline{-11 \dots (2)} \\
 68 \\
 \underline{-11 \dots (3)} \\
 57 \\
 \underline{-11 \dots (4)} \\
 46 \\
 \underline{-11 \dots (5)} \\
 35 \\
 \underline{-11 \dots (6)} \\
 24 \\
 \underline{-11 \dots (7)} \\
 13
 \end{array}$$

$$\begin{array}{r}
 \text{(c)} \quad 94 \div 3 \\
 94 \\
 \underline{-13 \dots (1)} \\
 81 \\
 \underline{-13 \dots (2)} \\
 68 \\
 \underline{-13 \dots (3)} \\
 55 \\
 \underline{-13 \dots (4)} \\
 42 \\
 \underline{-13 \dots (5)} \\
 29 \\
 \underline{-13 \dots (6)} \\
 16 \\
 \underline{-13 \dots (7)} \\
 3
 \end{array}$$

$$\begin{array}{r} -16 \dots (8) \\ 16 \\ \hline \end{array}$$

$$16$$

$$\begin{array}{r} -16 \dots (9) \\ 0 \\ \hline \end{array}$$

$$0$$

Quotient = 9

Remainder = 0

(f) $304 \div 25$

$$304$$

$$\begin{array}{r} -25 \dots (1) \\ 279 \\ \hline \end{array}$$

$$279$$

$$\begin{array}{r} -25 \dots (2) \\ 254 \\ \hline \end{array}$$

$$254$$

$$\begin{array}{r} -25 \dots (3) \\ 229 \\ \hline \end{array}$$

$$229$$

$$\begin{array}{r} -25 \dots (4) \\ 204 \\ \hline \end{array}$$

$$204$$

$$\begin{array}{r} -25 \dots (5) \\ 179 \\ \hline \end{array}$$

$$179$$

$$\begin{array}{r} -25 \dots (6) \\ 154 \\ \hline \end{array}$$

$$154$$

$$\begin{array}{r} -25 \dots (7) \\ 129 \\ \hline \end{array}$$

$$129$$

$$\begin{array}{r} -25 \dots (8) \\ 104 \\ \hline \end{array}$$

$$104$$

$$\begin{array}{r} -25 \dots (9) \\ 79 \\ \hline \end{array}$$

$$79$$

$$\begin{array}{r} -25 \dots (10) \\ 54 \\ \hline \end{array}$$

$$54$$

$$\begin{array}{r} -25 \dots (11) \\ 29 \\ \hline \end{array}$$

$$29$$

$$\begin{array}{r} -25 \dots (12) \\ 4 \\ \hline \end{array}$$

$$4$$

$$\begin{array}{r} -11 \dots (8) \\ 2 \\ \hline \end{array}$$

$$2$$

$$\begin{array}{r} -11 \dots (9) \\ 2 \\ \hline \end{array}$$

$$2$$

$$\text{Quotient} = 7$$

$$\text{Remainder} = 3$$

$$\text{Quotient} = 8$$

$$\text{Remainder} = 2$$

(g) $172 \div 11$

$$172$$

$$\begin{array}{r} -11 \dots (1) \\ 161 \\ \hline \end{array}$$

$$161$$

$$\begin{array}{r} -11 \dots (2) \\ 150 \\ \hline \end{array}$$

$$150$$

$$\begin{array}{r} -11 \dots (3) \\ 139 \\ \hline \end{array}$$

$$139$$

$$\begin{array}{r} -11 \dots (4) \\ 128 \\ \hline \end{array}$$

$$128$$

$$\begin{array}{r} -11 \dots (5) \\ 117 \\ \hline \end{array}$$

$$117$$

$$\begin{array}{r} -11 \dots (6) \\ 106 \\ \hline \end{array}$$

$$106$$

$$\begin{array}{r} -11 \dots (7) \\ 95 \\ \hline \end{array}$$

$$95$$

$$\begin{array}{r} -11 \dots (8) \\ 84 \\ \hline \end{array}$$

$$84$$

$$\begin{array}{r} -11 \dots (9) \\ 73 \\ \hline \end{array}$$

$$73$$

$$\begin{array}{r} -11 \dots (10) \\ 62 \\ \hline \end{array}$$

$$62$$

$$\begin{array}{r} -11 \dots (11) \\ 51 \\ \hline \end{array}$$

$$51$$

$$\begin{array}{r} -11 \dots (12) \\ 40 \\ \hline \end{array}$$

$$40$$

Quotient = 12
Remainder = 4

$$\begin{array}{r} \underline{- 11 \dots (13)} \\ 29 \\ - 11 \dots (14) \\ 18 \\ \underline{- 11 \dots (15)} \\ 07 \end{array}$$

Quotient = 15
Remainder = 7

(h) $233 \div 19$

$$\begin{array}{r} 233 \\ \underline{- 19 \dots (1)} \\ 214 \\ \underline{- 19 \dots (2)} \\ 195 \\ \underline{- 19 \dots (3)} \\ 176 \\ \underline{- 19 \dots (4)} \\ 157 \\ \underline{- 19 \dots (5)} \\ 138 \\ \underline{- 19 \dots (6)} \\ 119 \\ \underline{- 19 \dots (7)} \\ 100 \\ \underline{- 19 \dots (8)} \\ 81 \\ \underline{- 19 \dots (9)} \\ 62 \\ \underline{- 19 \dots (10)} \\ 43 \\ \underline{- 19 \dots (11)} \end{array}$$

(i) $295 \div 25$

$$\begin{array}{r} 295 \\ \underline{- 25 \dots (1)} \\ 270 \\ \underline{- 25 \dots (2)} \\ 245 \\ \underline{- 25 \dots (3)} \\ 220 \\ \underline{- 25 \dots (4)} \\ 195 \\ \underline{- 25 \dots (5)} \\ 170 \\ \underline{- 25 \dots (6)} \\ 145 \\ \underline{- 25 \dots (7)} \\ 120 \\ \underline{- 25 \dots (8)} \\ 95 \\ \underline{- 25 \dots (9)} \\ 95 \\ \underline{- 25 \dots (10)} \\ 45 \\ \underline{- 25 \dots (11)} \end{array}$$

24

- 19...(12)

5

Quotient = 12

Remainder = 5

(j) $220 \div 15$

- 15 ... (1)

205

- 15 ... (2)

190

- 15 ... (3)

175

- 15 ... (4)

160

- 15 ... (5)

145

- 15 ... (6)

130

- 15 ... (7)

115

- 15 ... (8)

100

- 15 ... (9)

85

- 15 ... (10)

70

- 15 ... (11)

55

- 15 ... (12)

40

20

Quotient = 11

Remainder = 20

(k) $356 \div 102$

356

- 102... (1)

254

- 102... (2)

152

- 102... (3)

050

Quotient = 3

Remainder = 50

$$\underline{-15} \dots(13)$$

25

$$\underline{-15} \dots(14)$$

10

Quotient = 14

Remainder = 10

(l) $825 \div 204$

825

$$\underline{-204} \dots(1)$$

621

$$\underline{-204} \dots(2)$$

417

$$\underline{-204} \dots(3)$$

213

$$\underline{-204} \dots(4)$$

009

Quotient = 4

Remainder = 9

2. (a) 0

(b) Meaningless

(c) 6

(d) 1

(e) 0

(f) meaningless

(g) 1

(h) 18

(i) 0

3. (a) 16

(b) 40

(c) 41

(d) 58

(e) 66

(f) 98

(g) 105

(h) 406

E.X. 6.2

1.

	Sums	Dividend	Divisor	Quotient
(a)	$27 \div 9$	27	9	3
(b)	$56 \div 7$	56	7	8
(c)	$48 \div 6$	48	6	8
(d)	$63 \div 9$	63	9	7
(e)	$80 \div 10$	80	10	8

2. (a) $54 \div 9 = 6$

$9 \times 6 = 54$

$6 \times 9 = 54$

(c) $56 \div 8 = 7$

$8 \times 7 = 56$

$7 \times 8 = 56$

3. (a) $4 \times 3 = 3 = 1 \times 12$

(c) $16 \div 4 = 2 \times 2$

(e) $72 \div 8 = 9$

(g) $56 \div 7 = 2 \times 4$

(b) $7 \times 5 = 35$

$35 \div 7 = 5$

$35 \div 5 = 7$

(d) $72 \div 8 = 9$

$8 \times 9 = 72$

$9 \times 8 = 72$

(b) $4 \times 5 = 20$

(d) $0 \times 35 = 0$

(f) $20 \times 10 = 200$

(h) $25 \times 0 = 0$

Beat the Clock

1. $Q = 5$ $R = 5$

3. $Q = 10$ $R = 5$

5. $Q = 9$ $R = 5$

7. $Q = 6$ $R = 2$

2. $Q = 12$ $R = 0$

4. $Q = 23$ $R = 0$

6. $Q = 7$ $R = 4$

8. $Q = 34$ $R = 0$

E.X. 6.3

1. (a) 8 (b) 9

(e) 8 (f) 8

(i) 112 (j) 0

(c) 7 (d) 9

(g) 9 (h) 10

2. (a) $8 \times 9 = 72$

$9 \times 8 = 72$ $72 \div 9 = 8$

$72 \div 8 = 9$

(b) $12 \times 8 = 96$

$8 \times 12 = 96$ $96 \div 8 = 12$

$96 \div 12 = 8$

(c) $10 \times 3 = 30$

$3 \times 10 = 30$ $30 \div 10 = 3$

(d) $6 \times 8 = 48$

$8 \times 6 = 48$ $48 \div 6 = 8$

$48 \div 8 = 6$

(e) $11 \times 10 = 110$

$10 \times 11 = 110$ $48 \div 6 = 8$

$48 \div 8 = 6$

(f) $1 \times 5 = 5$

$5 \times 1 = 5$ $5 \div 5 = 1$

$48 \div 12 = 4$

$$(g) 12 \times 4 = 48$$

$$4 \times 12 = 48$$

$$48 \div 4 = 12$$

$$48 \div 12 = 4$$

Mental Maths

1. 36 2. 47 3. 33 4. 56 5. 67

E.X. 6.4

1. (a) $50 \div 8$

$$\begin{array}{r} 6 \\ 8 \overline{)50} \\ \underline{48} \\ 2 \end{array}$$

$$Q = 6$$

$$R = 2$$

(b) $68 \div 9$

$$\begin{array}{r} 7 \\ 9 \overline{)68} \\ \underline{63} \\ 05 \end{array}$$

$$Q = 7$$

$$R = 5$$

(c) $64 \div 7$

$$\begin{array}{r} 9 \\ 7 \overline{)64} \\ \underline{63} \\ 1 \end{array}$$

$$Q = 9$$

$$R = 1$$

(d) $57 \div 9$

$$\begin{array}{r} 6 \\ 9 \overline{)57} \\ \underline{54} \\ 3 \end{array}$$

$$Q = 6$$

$$R = 3$$

(e) $54 \div 6$

$$\begin{array}{r} 9 \\ 6 \overline{)54} \\ \underline{54} \\ 0 \end{array}$$

$$Q = 9$$

$$R = 0$$

(f) $72 \div 8$

$$\begin{array}{r} 9 \\ 8 \overline{)72} \\ \underline{72} \\ 00 \end{array}$$

$$Q = 9$$

$$R = 0$$

(g) $40 \div 5$

$$\begin{array}{r} 8 \\ 5 \overline{)40} \\ \underline{40} \\ 00 \end{array}$$

$$Q = 8$$

$$R = 0$$

(h) $56 \div 7$

$$\begin{array}{r} 8 \\ 7 \overline{)56} \\ \underline{56} \\ 00 \end{array}$$

$$Q = 8$$

$$R = 0$$

(i) $45 \div 9$

$$\begin{array}{r} 5 \\ 9 \overline{)45} \\ \underline{45} \\ 0 \end{array}$$

$$Q = 5$$

$$R = 0$$

(j) $56 \div 8$

(k) $72 \div 9$

(l) $81 \div 9$

$$\begin{array}{r} 7 \\ 8 \overline{)56} \\ \underline{56} \\ 0 \end{array}$$

$$Q = 7$$

$$R = 0$$

$$\begin{array}{r} 8 \\ 9 \overline{)72} \\ \underline{72} \\ 00 \end{array}$$

$$Q = 8$$

$$R = 0$$

$$\begin{array}{r} 9 \\ 9 \overline{)81} \\ \underline{81} \\ 0 \end{array}$$

$$Q = 9$$

$$R = 0$$

2. $78 \div 9$

$$\begin{array}{r} 8 \\ 9 \overline{)78} \\ \underline{72} \\ 6 \end{array}$$

(b) $65 \div 7$

$$\begin{array}{r} 9 \\ 7 \overline{)65} \\ \underline{63} \\ 2 \end{array}$$

(c) $55 \div 8$

$$\begin{array}{r} 6 \\ 8 \overline{)55} \\ \underline{48} \\ 07 \end{array}$$

(d) $59 \div 7$

$$\begin{array}{r} 8 \\ 7 \overline{)59} \\ \underline{56} \\ 03 \end{array}$$

Check

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \\ + 6 \\ \hline 78 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \\ + 2 \\ \hline 65 \end{array}$$

Check

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \\ + 7 \\ \hline 55 \end{array}$$

Check

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \\ + 3 \\ \hline 59 \end{array}$$

$$(e) 64 \div 8$$

$$\begin{array}{r} 8 \\ 8 \overline{)64} \\ \underline{64} \\ 0 \end{array}$$

Check

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

$$(f) 69 \div 8$$

$$\begin{array}{r} 8 \\ 8 \overline{)69} \\ \underline{-64} \\ 5 \end{array}$$

Check

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \\ + 5 \\ \hline 69 \end{array}$$

$$(g) 57 \div 7$$

$$\begin{array}{r} 8 \\ 7 \overline{)57} \\ \underline{56} \\ 01 \end{array}$$

Check

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \\ + 1 \\ \hline 57 \end{array}$$

$$(h) 59 \div 6$$

$$\begin{array}{r} 9 \\ 6 \overline{)59} \\ \underline{54} \\ 5 \end{array}$$

Check

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \\ + 5 \\ \hline 59 \end{array}$$

$$(i) 84 \div 9$$

$$\begin{array}{r} 9 \\ 9 \overline{)84} \\ \underline{81} \\ 3 \end{array}$$

Check

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \\ + 3 \\ \hline 84 \end{array}$$

(j) $72 \div 9$

$$\begin{array}{r} 8 \\ 9 \overline{)72} \\ \underline{72} \\ 00 \end{array}$$

Check

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

Beat the Clock

1. $35 \div 5 = 7$

2. $36 \div 4 = 9$

3. $56 \div 8 = 7$

4. $90 \div 10 = 9$

5. $54 \div 6 = 9$

E.X. 6.5

	Quotient	Remainder
1. (a) $97 \div 10$	9	7
(b) $88 \div 10$	8	8
(c) $933 \div 100$	9	33

	Quotient	Remainder
2. (a) $82 \div 10$	8	2
(b) $85 \div 10$	8	5
(c) $60 \div 10$	6	0
(d) $91 \div 10$	9	1
(e) $404 \div 10$	40	4
(f) $56 \div 10$	5	6
(g) $910 \div 10$	91	0
(h) $805 \div 10$	80	5

E.X. 6.6

1. Total cakes = 24

Number of children = 4

Share of each child = $24 \div 4$

$$\begin{array}{r} 6 \\ 4 \overline{)24} \\ \underline{24} \\ 00 \end{array}$$

$$\begin{array}{r} 15 \\ 21 \overline{)315} \\ \underline{21} \\ 105 \\ \underline{-105} \\ 000 \end{array}$$

∴ Each child will get 6 cakes

2. Total Frames = 315

Frames on each page = 21

∴ Number of Pages = $315 \div 21$

∴ There are 15 pages in all

3. Area of the room = 16×8

= 128 Feet

Area of the one carpet = 8×4

= 32 Feet

∴ No of carpets required = $128 \div 32$

$$\begin{array}{r} 4 \\ 32 \overline{)128} \\ \underline{128} \\ 000 \end{array}$$

4 Carpets will be required to cover the whole floor

4. Length fo relay race = 150

Number of team members = 5

Each team member has to run = $150 \div 5$

$$\begin{array}{r} 30 \\ 5 \overline{)150} \\ \underline{15} \\ 600 \end{array}$$

∴ Each member will have to run 30 m

5. Cloth required to make a t-shirt = 5 m

Total cloth material = 60 m

∴ Number of shirts = $60 \div 5$

$$\begin{array}{r} 12 \\ 5 \overline{)60} \\ \underline{5} \\ 10 \\ \underline{10} \\ 00 \end{array}$$

∴ 12 shirts can be made

Sum up

1. (a) 17 (b) 0 (c) 1 (d) 90

(e) 95 (f) 1

2. (a) $Q = 8, R = 5$ (b) $Q = 9, R = 17$

(c) $Q = 860, R = 62$ (b) $Q = 50, R = 4$

3.

(a) $70 \div 8$

$$\begin{array}{r} 8 \\ 8 \overline{)70} \\ \underline{64} \\ 06 \end{array}$$

Check

$$\begin{array}{r} 8 \\ \times 8 \\ \hline + 6 \\ \hline 70 \end{array}$$

(b) $81 \div 7$

$$\begin{array}{r} 11 \\ 7 \overline{)81} \\ \underline{7} \\ 11 \\ \underline{7} \\ 4 \end{array}$$

Check

$$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \\ \underline{+4} \\ \hline 81 \end{array}$$

(c) $546 \div 4$

$$\begin{array}{r} 136 \\ 4 \overline{)546} \\ \underline{4} \\ 14 \\ \underline{12} \\ 26 \\ \underline{24} \\ 2 \end{array}$$

Check

$$\begin{array}{r} 136 \\ \times 4 \\ \hline 544 \\ \underline{+2} \\ \hline 546 \end{array}$$

(d) $864 \div 6$

144

Check

$$\begin{array}{r}
 6 \overline{)864} \\
 \underline{6} \\
 26 \\
 \underline{-24} \\
 24 \\
 \underline{24} \\
 00
 \end{array}$$

$$\begin{array}{r}
 144 \\
 \times 6 \\
 + 6 \\
 \hline
 864
 \end{array}$$

4. Total money = ₹ 1200

Number of children = 6

∴ Rupees teacher one got = $1200 \div 6$

$$\begin{array}{r}
 200 \\
 6 \overline{)1200} \\
 \underline{-12} \\
 00
 \end{array}$$

∴ Each child got ₹ 200

5. (a) (ii) (b) (i) (c) (iv) (d) (iv)

CHAPTER 7

E.X. 7.1

1. (a) (b) (c)
2. (a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{1}{2}$ (d) $\frac{1}{3}$

E.X. 7.2

1. Numerator

- | | |
|-------|---|
| (a) 7 | 8 |
| (b) 5 | 9 |
| (c) 3 | 7 |
| (d) 4 | 8 |
| (e) 2 | 5 |

Denominator

- | | |
|---------------------|-----------------|
| 2. (a) Five-seventh | (b) Six-eighth |
| (c) four-seventh | (d) three-sixth |

(e) five-nineth

(f) four-eighth

(g) Eight-tenth

(h) three-fifth

3. (a) $\frac{3}{7}$

(a) $\frac{4}{7}$

(c) $\frac{6}{9}$

(d) $\frac{1}{8}$

(d) $\frac{4}{6}$

(f) $\frac{5}{7}$

4.

Figures	a	b	c	d	e	f
Number of shaded parts (Numerator)	1	5	12	3	7	3
Number of parts (Denominator)	6	5	12	6	8	9
Fraction of shaded parts	$\frac{1}{6}$	$\frac{5}{5}$	$\frac{12}{12}$	$\frac{3}{6}$	$\frac{7}{8}$	$\frac{3}{9}$

5. (a) (b) (d) (g)

6. (b) (c) (d) (g)

7. (a) (c) (f) (g)

8. (b) (c) (e)

9. (a) $\frac{14}{3} = 4\frac{2}{3}$

(b) $\frac{26}{5} = 5\frac{1}{5}$

(c) $\frac{18}{7} = 2\frac{4}{7}$

(d) $\frac{35}{6} = 5\frac{5}{6}$

(e) $\frac{42}{4} = 10\frac{2}{4}$

(f) $\frac{56}{9} = 6\frac{2}{9}$

10. (a) $1\frac{7}{10} = \frac{17}{10}$

(b) $12\frac{1}{9} = \frac{109}{9}$

(c) $3\frac{6}{8} = \frac{30}{8}$

(b) $7\frac{5}{12} = \frac{89}{12}$

(e) $10\frac{3}{6} = \frac{63}{6}$

(b) $12\frac{1}{8} = \frac{97}{8}$

Beat the Clock

1. $\frac{5}{11} = \frac{10}{22}$

2. $\frac{2}{4} = \frac{6}{12}$

3. $\frac{6}{10} = \frac{30}{50}$

4. $\frac{2}{3} = \frac{10}{15}$

5. $\frac{1}{4} = \frac{4}{16}$

6. $\frac{4}{7} = \frac{8}{14}$

E.X. 8.1

1. Do Yourself

2. (a) m (b) m (c) m (d) m
(e) cm (f) gm

3. (a) gm (b) kg (c) gm (d) kg
(e) gm (f) gm

4. (a) ml (b) l (c) ml (d) l

E.X. 8.2

1.

(a) $\begin{array}{r} \textcircled{1} \text{ cm} \\ 3 \quad 5 \\ + 6 \quad 8 \\ \hline 10 \quad 3 \end{array}$	(b) $\begin{array}{r} \textcircled{1} \text{ cm} \\ 4 \quad 4 \\ + 5 \quad 9 \\ \hline 10 \quad 3 \end{array}$	(b) $\begin{array}{r} \textcircled{1} \text{ cm} \\ 6 \quad 1 \\ + 3 \quad 9 \\ \hline 10 \quad 0 \end{array}$
--	--	--

(d) $\begin{array}{r} \textcircled{1} \text{ cm} \\ 8 \quad 6 \\ + 1 \quad 8 \\ \hline 10 \quad 4 \end{array}$	(e) $\begin{array}{r} \text{m} \quad \textcircled{1} \text{cm} \\ 83 \quad 13 \\ 32 \quad 45 \\ + 42 \quad 12 \\ \hline 157 \quad 70 \end{array}$	(f) $\begin{array}{r} \text{m} \quad \textcircled{1} \text{ cm} \\ 96 \quad 34 \\ \textcircled{1} 73 \quad 24 \\ + 229 \quad 11 \\ \hline 398 \quad 69 \end{array}$
--	---	---

(g) $\begin{array}{r} \text{m} \quad \textcircled{1} \text{ cm} \\ 81 \quad 71 \\ 30 \quad 08 \\ + 41 \quad 89 \\ \hline 153 \quad 68 \end{array}$

2. (a) cm

$$\begin{array}{r} ^5 ^{10} \\ 60 \\ - 34 \\ \hline \underline{26} \end{array}$$

(b) cm

$$\begin{array}{r} ^4 ^{15} \\ 55 \\ - 39 \\ \hline \underline{16} \end{array}$$

(c) cm

$$\begin{array}{r} ^7 ^{13} \\ 83 \\ - 65 \\ \hline \underline{18} \end{array}$$

(d) cm

$$\begin{array}{r} ^8 ^{10} \\ 90 \\ - 45 \\ \hline 45 \end{array}$$

(e) m cm

$$\begin{array}{r} 35 \quad 86 \\ - 20 \quad 72 \\ \hline 15 \quad 14 \end{array}$$

(f) m cm

$$\begin{array}{r} ^8 ^{15} \\ 95 \quad 86 \\ - 16 \quad 25 \\ \hline 79 \quad 61 \end{array}$$

(g) m cm

$$\begin{array}{r} ^7 ^{12} \quad ^7 ^{10} \\ 82 \quad 80 \\ - 35 \quad 15 \\ \hline 47 \quad 65 \end{array}$$

(h) km m

$$\begin{array}{r} ^2 ^{16} ^{14} \quad ^1 ^2 ^{16} \\ 375 \quad 216 \\ - 96 \quad 563 \\ \hline 278 \quad 653 \end{array}$$

(i) km m

$$\begin{array}{r} ^3 ^9 ^{10} \quad ^{10} ^5 ^{13} \\ 401 \quad 063 \\ - 272 \quad 128 \\ \hline 128 \quad 935 \end{array}$$

(j) km m

$$\begin{array}{r} ^5 ^{10} \quad ^1 ^9 ^{10} \\ 660 \quad 200 \\ - 228 \quad 165 \\ \hline 432 \quad 035 \end{array}$$

3. Cloth bought for shirt = $3 \overset{\text{m}}{\text{①}} \overset{\text{cm}}{85}$
 Cloth bought for trousers + $2 \quad 95$
 Total cloth bought = $\underline{6 \quad 80}$

∴ I bought 6 m 80 cm of cloth

4. Distance travelled by bus = $\overset{\text{km}}{\text{①}} \overset{1}{60} \quad \overset{\text{m}}{\text{①①}} 775$
 Distance travelled by train = $+280 \quad 489$
 ∴ Total distance travelled $\underline{341 \quad 264}$
 Monu travelled 341 km 264m

5. Height of Amit = $1 \quad \overset{\text{cm}}{\text{①}} 25$
 ∴ Height of sister = $\underline{+ \quad 18}$
 $\underline{1 \quad 43}$

∴ Height of his sister is 1 m 43 cm

	m	cm	
6.	Length of rope =	$55 \begin{smallmatrix} 4 \\ 14 \end{smallmatrix}$	$16 \begin{smallmatrix} 11 \\ 6 \end{smallmatrix}$
	Piece of rope cut –	38	24
	Rope left	<u>16</u>	<u>92</u>

∴ 16 m 92 cm of rope is left

	km	m
7.	Distance travelled by train =	$676 \begin{smallmatrix} \textcircled{0} \\ \textcircled{0} \\ \textcircled{0} \end{smallmatrix}$
	Distance travelled by scooter =	47 502
	Distance travelled by bicycle =	+ 790
		<u>724</u> <u>292</u>

	m	cm
8.	Length of plant in the beginning =	65
	Plant growth	= 1 11
	Length of plant after growth	<u>= 1 76</u>

The plant is 1m 76 cm tall now

Activity

1. kg 2. 1000 3. gm 4. kg 5. 7000 g

E.X. 8.3

1.

(a) g	(b) g	(c) g
521	$478 \begin{smallmatrix} 1 \\ 1 \end{smallmatrix}$	620
<u>318</u>	<u>+425</u>	<u>+055</u>
<u>839</u>	<u>903</u>	<u>675</u>

(d) g	(e) g	(f) g
$056 \begin{smallmatrix} 1 \\ 1 \end{smallmatrix}$	956	$602 \begin{smallmatrix} 9 \end{smallmatrix}$
<u>+356</u>	<u>-425</u>	<u>-263</u>
<u>412</u>	<u>531</u>	<u>339</u>

(g) kg g 316 $\begin{array}{r} 2\ 12 \\ 329 \end{array}$ $\begin{array}{r} -184 \\ \hline 132 \end{array}$ $\begin{array}{r} 287 \\ \hline 042 \end{array}$	(h) kg g $\begin{array}{r} 5\ 9\ 10 \\ 600 \end{array}$ $\begin{array}{r} 5\ 9\ 10 \\ 600 \end{array}$ $\begin{array}{r} -125 \\ \hline 475 \end{array}$ $\begin{array}{r} 125 \\ \hline 475 \end{array}$
---	---

kg	g
①①	
59	①①

2. Sumit's weight	=	58	=	+ 7	=	<u>66 kg</u>	=	<u>768</u>	=	<u>278</u>
Weight of his brother										
∴ Brother weight is										

3.	Kg	g	+ 18	=	<u>266</u>
	①	①①	39	=	<u>144</u>
	20	878			

4. Rupam's weight =	kg	g	=	- 48	=	<u>962</u>
	$\begin{array}{r} 4\ 10 \\ 5\ 0 \end{array}$	$\begin{array}{r} 12\ 7\ 5 \\ 2\ 7\ 5 \end{array}$				
Priya's weight =						
Priya is lighter by						
Priya is lighter by						

5. Kg. Kg. l, l, gm, kg

6. Do Yourself

E.X. 8.4

- | | |
|-----------------------|------------------------|
| 1. (a) 1 l = 1000 ml | (b) 2000 ml = 2l |
| (c) 3l = 3000ml | (d) 5000ml = 5l |
| (e) 2250ml = 2l 250ml | (f) 8700ml = 8l 700ml |
| (g) 9000 ml = 9l | (h) 9l = 9000 ml |
| (i) 7l32ml = 7325 ml | (j) 3l156 ml = 3156 ml |

2. (a)	(b)	(c)	(d)
$\begin{array}{r} \text{ml} \\ 500 \\ +700 \\ \hline 1200 \end{array}$	$\begin{array}{r} \text{ml} \\ 600 \\ +800 \\ \hline 1400 \end{array}$	$\begin{array}{r} \text{ml} \\ 300 \\ +35 \\ \hline 335 \end{array}$	$\begin{array}{r} \text{ml} \\ 500 \\ +34 \\ \hline 534 \end{array}$

$$\begin{array}{r}
 \text{3. (a)} \quad 1 \quad \text{ml} \\
 \quad \quad 38 \quad \quad \quad \begin{array}{l} 415 \\ 561 \end{array} \\
 \quad \quad \underline{+22} \quad \quad \underline{282} \\
 \quad \quad \quad \quad \quad \quad \underline{16} \quad \quad \underline{279}
 \end{array}
 \quad
 \begin{array}{r}
 \text{(b)} \quad 1 \quad \text{ml} \\
 \quad \quad 711 \quad \quad \quad \begin{array}{l} 149 \\ 82 \end{array} \\
 \quad \quad \quad \quad \quad \quad \begin{array}{l} 10 \\ 500 \end{array} \\
 \quad \quad \quad \quad \quad \quad \underline{-38} \quad \quad \underline{625} \\
 \quad \quad \quad \quad \quad \quad \underline{43} \quad \quad \underline{875}
 \end{array}
 \quad
 \begin{array}{r}
 \text{(c)} \quad 1 \quad \text{ml} \\
 \quad \quad \quad \quad \quad \quad \begin{array}{l} 59 \\ 60 \end{array} \\
 \quad \quad \quad \quad \quad \quad \underline{-42} \quad \quad \underline{127} \\
 \quad \quad \quad \quad \quad \quad \underline{17} \quad \quad \underline{877}
 \end{array}$$

$$\begin{array}{r}
 \text{4. Fuel in the truck} = \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 76 \quad 216 \end{array} \\
 \text{More Fuel filled in the tank} = \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 34 \quad 157 \end{array} \\
 \text{Total fuel in the tank} = \quad \quad \quad \underline{\underline{110 \quad 373}}
 \end{array}$$

\therefore The tank has 110 l 373 ml of fuel.

$$\begin{array}{r}
 \text{5. Water in the tank} = \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 91 \quad 800 \end{array} \\
 \text{More water added to the tank} = \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 62 \quad 927 \end{array} \\
 \text{Total water in the tank} = \quad \quad \quad \underline{\underline{154 \quad 727}}
 \end{array}$$

\therefore The tank has 154 l 727 ml of water in it.

$$\begin{array}{r}
 \text{6. Oil in the container} = \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 8 \quad 10 \quad 410 \end{array} \\
 \text{Oil used} = \quad \quad \quad \begin{array}{l} 9 \quad 50 \end{array} \\
 \text{Oil left} = \quad \quad \quad \underline{\underline{4 \quad 225}} \\
 \quad \quad \quad \quad \quad \quad \underline{4 \quad 825}
 \end{array}$$

4 l 825 ml of oil is left in the tank

$$\begin{array}{r}
 \text{7.} \quad \quad \quad \begin{array}{l} 1 \quad \text{ml} \\ 39 \quad 11 \\ 40 \quad 125 \end{array} \\
 \text{Ans} = 14 \text{ l } 625 \text{ ml} \quad \quad \quad \underline{\underline{-25 \quad 500}} \\
 \text{Sum up} \quad \quad \quad \underline{\underline{14 \quad 625}}
 \end{array}$$

1. (a) 7 kg = 7000 g (b) 52 kg = 52000 g
 (c) 8000 g = 8 kg (d) 6000 g = 6 kg

2. (a) 350m + 250m = 600m
 (b) 700m + 300m = 1000m
 (c) 410m + 330m = 740m
 (d) 710m + 290m = 1000m
 (e) 450m + 550m = 1000m
 (f) 510m + 240m = 750m
 (g) 300m + 400m + 300m = 1000m
 (h) 800m + 200m = 1000m
 (i) 500m + 300m + 200m = 1000m
 (j) 400m + 550m = 950m

2.

	Less than 1 km	ual to 1 km
(a)	600 m	(b) 1000 m
(c)	740 m	(d) 1000 m
(f)	750 m	(e) 1000 m
(j)	950 m	(g) 1000 m
		(h) 1000 m
		(i) 1000 m

3. Weight of Potatoes = 7 kg

Weight of Onions = 8 kg

Weight of Fruits = + 12 kg

Total weight of bag = 27 kg

4. Weight of biscuits = 750 g

Weight of toffees = - 446 g

Weight of biscuits exceed the weight of toffees by = 304 g

The weight of buiscuits exceed the weight of toffees by 304 g.

5. Cup's needs to fill a 1 litre bottle = 15

Number of cups needed to full a 6 litre bottle = 15×6

$$\begin{array}{r} 15 \\ \times 6 \\ \hline 90 \end{array}$$

\therefore 90 cups are needed to fill a 6 litre bottle.

6. Total weight Renu has = 5 kg + 7 kg = 12 kg

Weight Neha has = 13 kg

$$\begin{array}{r} 13 \text{ kg} \\ - 12 \text{ kg} \\ \hline 1 \text{ kg} \end{array}$$

Neha has 1 kg more weight to carry home

7. Milk in the bowl = 920 ml

$$\begin{array}{r} \text{Milk in the glass} = 760 \text{ ml} \\ 920 \\ - 760 \\ \hline 160 \end{array}$$

Bowl has 160 ml more milk.

CHAPTER 09

Beat the Clock

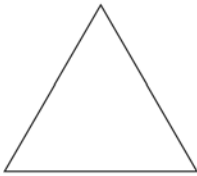
Do yourself

Mental Maths

- (a) Scale (b) Point (c) Cuboid
(d) Cylinder (e) Sphere (f) Square
(g) Triangle.

Ex. 9.1

1. (a) Cylinder (b) Square (c) Cone (d) Cylinder
(e) Cone
2. (a) False (b) True (c) False (d) True
(e) True (f) True (g) False
3. (a) Triangle (b) Circle

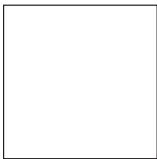


Vertices = 3

Edges = 3

Faces = 1

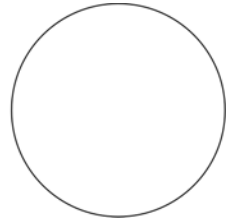
- (c) Square



Vertices = 4

Edges = 4

Faces = 1

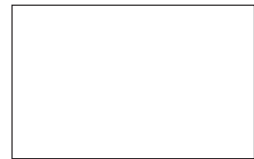


Vertices = 0

Edges = 0

Faces = 1

- (d) Rectangle

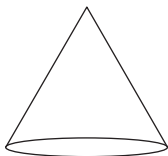


Vertices = 4

Edges = 4

Faces = 1

(e) Cone

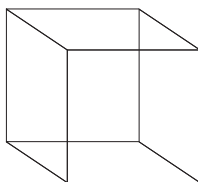


Vertices = 1

Edges = 1

Faces = 2

(f) Cube

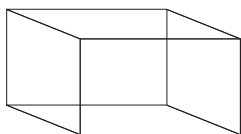


Vertices = 8

Edges = 12

Faces = 6

(g) Cuboid

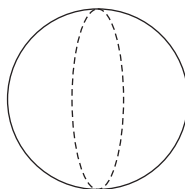


Vertices = 8

Edges = 12

Faces = 6

(h) Sphere



Vertices = 0

Edges = 0

Faces = 1

(i) Cylinder



Vertices = 0

Edges = 2

Faces = 3

4. Do yourself

5. Do yourself

6. Do yourself

Activity

Do yourself

Ex. 9.2

1. Straight lines = 5

Curved lines = 8

2. Do yourself

Beat the clock

Do yourself

Activity

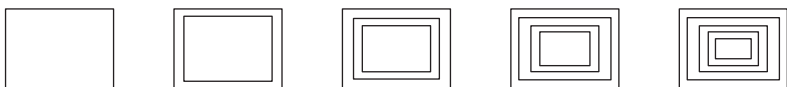
Do yourself

Beat the clock

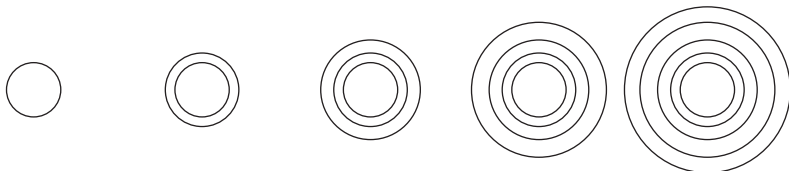
1.



2.



3.



4. Do yourself

Ex. 9.3

1. (a) $5 + 2 = 7$

$$50 + 20 = 70$$

$$500 + 200 = 700$$

$$5000 + 2000 = 7000$$

(c) $13 + 5 = 18$

$$13 + 15 = 28$$

$$13 + 25 = 38$$

$$13 + 35 = 48$$

(e) 50, 40, 30, 20, 10

(b) $8 - 5 = 3$

$$80 - 50 = 30$$

$$800 - 500 = 300$$

$$8000 - 5000 = 3000$$

(d) 5, 7, 10, 14, 19, 25

(f) 105, 107, 110, 114, 119

2. (a) 1 2 4 8 16 32
 (b) 100 80 60 40 20 0
 (c) 10 11 13 16 20 25
 107 114 121 128 135 142
 1 1 2 3 5 8 13

3. Do yourself

Ex. 9.4

1. ✗ 2. ✓ 3. ✗ 4. ✓

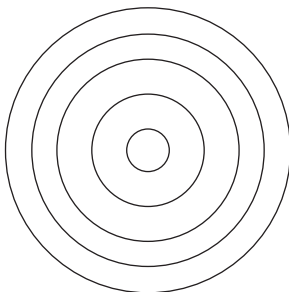
Sum up

1. (a) 3, 3 (b) Square (c) 12, 8 (d) Cylinder, cone
 (e) One

2. (a)   (b)  

- (a)   (b)  

3.



4. (a) N (b) N (c) N (d) Y
 (e) N (f) Y

CHAPTER 10

Ex. 10.1

1. (a) The hours (b) Once every hour
 (c) Friday (d) Two weeks
 (e) 60

2. Do yourself

3. Do yourself

Ex. 10.2

(b) 8:00

8 O' clock

(d) 8:54

6 minutes to 9

(f) 7:00

7 O' clock

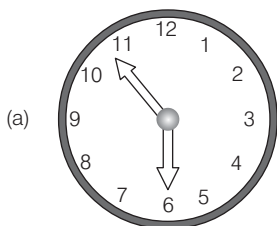
(c) 4:10

10 minutes past 4

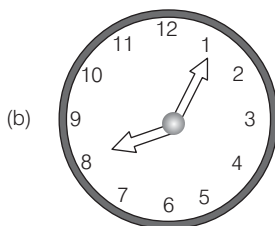
(e) 9:55

5 minutes to 10

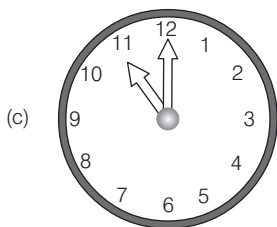
2.



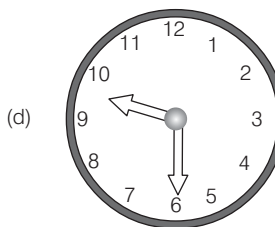
Half Past 10



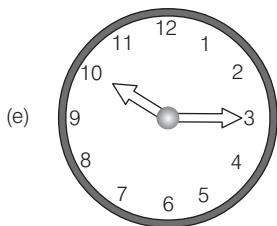
8 : 05



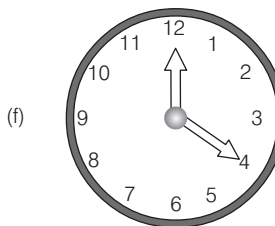
11 : 00



9 : 30



10 : 15



12 : 20

Ex. 10.3

1. (a) 6 a.m. (b) 8 a.m. (c) 5:45 p.m. (d) 5 p.m.
 (e) 9:30 p.m. (f) 4 pm (g) 10 a.m.
2. (a) 6:30 a.m. (b) 3:00 p.m. (c) 7:30 a.m. (d) 7:30 p.m.
 (e) 8:45 p.m. (f) 1:00 p.m. (g) 12:01 p.m.

Ex. 10.4

1. (a) 4 hours = $4 \times 60 = 240$ minutes.
 (b) 8 hours = $8 \times 60 = 480$ minutes.
 (c) 7 hours = $7 \times 60 = 420$ minutes.
 (d) 12 hours = $12 \times 60 = 720$ minutes.
 (e) 9 hours = $9 \times 60 = 540$ minutes.
 (f) 5 hours 20 minutes = $(5 \times 60) + 20 = 300 + 20 = 320$ minutes.
 (g) 5 hours 50 minutes = $(5 \times 60) + 50 = 300 + 50$
 = 350 minutes.
 (h) 5 hours 5 minutes = $(5 \times 60) + 5 = 300 + 5 = 305$ minutes.
 (i) 8 hours 2 minutes = $(8 \times 60) + 2 = 480 + 2 = 482$ minutes.
 (j) 6 hours = $6 \times 60 = 360$ minutes.
2. (a) 5 hours = $5 \times 60 \times 60 = 5 \times 3600 = 18000$ seconds.
 (b) 6 minutes = $6 \times 60 = 360$ seconds.
 (c) 8 minutes = $8 \times 60 = 480$ seconds.
 (d) 45 minutes = $45 \times 60 = 2700$ seconds.
 (e) 15 hours = $15 \times 60 \times 60 = 15 \times 3600 = 54000$
 (f) 3 hours 30 seconds = $(3 \times 60 \times 60) + 30 = (3 \times 3600) + 30$
 = $10800 + 30 = 10830$ seconds.
 (g) 7 minutes 7 seconds = $(7 \times 60) + 7 = 420 + 7$
 = 427 seconds.
 (h) 4 hours 26 minutes = $(4 \times 60 \times 60) + (26 \times 60)$
 = $(4 \times 2400) + (26 \times 60) = 9600 + 26 \times 60$
 = $9600 + 1560 = 11160$ seconds.

3.

Take Minutes	Take Hours
Brushing your teeth having lunch	Watching a movie
Having lunch	Sleeping at night
Making a cup of tea	Attending school on Monday
Having a bath	Stitching a kurta
Putting on your school uniform	Playing a cricket match
Making a Pizza in an oven	Attending a birthday party.

4. (a) (i) (b) (ii) (c) (i) (d) (ii)
(e) (i)

Activity

Do yourself

Ex. 10.5

1. (a) 10-2-2017 (b) 18-5-2017 (c) 20-8-2017
(d) 24-12-2017 (e) 23-9-2017
2. (a) March 5, 2017 (b) February 16, 2015
(c) November 20, 2014 (d) January 11, 2016
(e) March 8, 2017
3. (a) 7/1/19 (b) 26/5/19 (c) 9/8/19 (d) 4/9/19
(e) 8/12/19
4. (a) Months (b) Months (c) Years (d) Months
(e) Months

5. Do yourself

Sum up.

1. (a) March (b) December (c) 31 (d) 366 (e) April
2. (a) $6 \times 60 = 360$ minutes. (b) $24 \times 5 = 120$ hours.
(c) $7 \times 60 = 420$ minutes. (d) $24 \times 7 = 168$ hours.
(e) $60 \times 8 = 480$ minutes. (f) $24 \times 9 = 216$ hours.
3. (a) Do yourself (b) August
(c) January (d) September

4. Do yourself

5. (a) (ii) (b) (ii) (c) (i) (d) (iv)

CHAPTER 11

Activity

1. ₹ 3 2. ₹ 20.75 p 3. ₹ 5.05 p
4. ₹ 84.90 p 5. ₹ 7.02 p 6. ₹ 65.25 p

Ex. 11.1

1. (a) ₹ 0.08 = 8 paise (b) ₹ 0.85 = 85 paise
(c) ₹ 80.99 = $80 \times 100 + 99 = 8000 + 99 = 8099$ paise
(d) ₹ 92.03 = $92 \times 100 + 3 = 9200 + 3 = 9203$ paise

(e) ₹ 27.30 = $27 \times 100 + 30 = 2700 + 30 = 2730$ paise

(f) ₹ 8.25 = $8 \times 100 + 25 = 800 + 25 = 825$ paise

(g) ₹ 90 = $90 \times 100 = 9000$ paise

(h) ₹ 12 = $12 \times 100 = 1200$ paise

2. (a) $909 \text{ P} = \frac{909}{100} = ₹ 9.09$ (b) $6005 \text{ P} = \frac{6005}{100} = ₹ 60.05$

(c) $8805 \text{ P} = \frac{8805}{100} = ₹ 88.05$ (d) $2415 \text{ P} = \frac{2415}{100} = ₹ 24.15$

(e) $810 \text{ P} = \frac{810}{100} = ₹ 8.10$ (f) $735 \text{ P} = \frac{735}{100} = ₹ 7.35$

(g) $1600 \text{ P} = \frac{1600}{100} = ₹ 16$ (h) $900 \text{ P} = \frac{900}{100} = ₹ 9$

Ex. 11.2

1. (a) ₹ P (b) ₹ P
 51 55 38 36
 + 34 32 + 60 43
 85 87 98 79

$$\begin{array}{r}
 \text{(c) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{2}23 \quad 78 \\
 + 57 \quad 21 \\
 \hline
 \underline{\underline{280 \quad 99}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{4}9 \quad \overset{1}{8}3 \\
 + 38 \quad 49 \\
 \hline
 \underline{\underline{88 \quad 32}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{9}6 \quad \overset{1}{6}7 \\
 + 49 \quad 34 \\
 \hline
 \underline{\underline{146 \quad 01}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{4}2 \quad \overset{1}{4}6 \\
 + 99 \quad 38 \\
 \hline
 \underline{\underline{141 \quad 84}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a) ₹} \\
 \begin{array}{r}
 \overset{1}{8}3.06 \\
 + 72.49 \\
 \hline
 \underline{\underline{155.55}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹} \\
 \begin{array}{r}
 \overset{1}{5}3.\overset{1}{4}9 \\
 + 38.69 \\
 \hline
 \underline{\underline{92.18}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹} \\
 \begin{array}{r}
 \overset{1}{3}8.06 \\
 + 27.79 \\
 \hline
 \underline{\underline{65.85}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d) ₹} \\
 \begin{array}{r}
 \overset{1}{2}83.\overset{1}{0}3 \\
 51.56 \\
 + 8.92 \\
 \hline
 \underline{\underline{343.51}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) ₹} \\
 \begin{array}{r}
 \overset{1}{5}04.40 \\
 193.82 \\
 + 72.76 \\
 \hline
 \underline{\underline{770.98}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f) ₹} \\
 \begin{array}{r}
 \overset{1}{9}0.\overset{1}{3}2 \\
 9.85 \\
 + 248.89 \\
 \hline
 \underline{\underline{349.06}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{3. (a) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{2}8 \quad \overset{1}{2}9 \\
 + 26 \quad 86 \\
 \hline
 \underline{\underline{55 \quad 15}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{3}8 \quad \overset{1}{4}9 \\
 + 92 \quad 09 \\
 \hline
 \underline{\underline{130 \quad 58}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{7}6 \quad \overset{1}{7}2 \\
 + 29 \quad 38 \\
 \hline
 \underline{\underline{106 \quad 10}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{9}6 \quad \overset{1}{2}8 \\
 48 \quad 07 \\
 + 34 \quad 82 \\
 \hline
 \underline{\underline{179 \quad 17}}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(e) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{1} \overset{1}{2} \\
 + 509 \\
 \hline
 \underline{622} \quad \underline{45}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(f) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{1}{8} \overset{1}{7} \\
 21 \\
 + 11 \\
 \hline
 \underline{120} \quad \underline{15}
 \end{array}
 \end{array}$$

Mental Maths

1. 5

2. 11

3. 20

4. 12

5. 6

6. 9

Ex 11.3

$$\begin{array}{r}
 \text{1. (a) ₹} \quad \text{P} \\
 \begin{array}{r}
 95.68 \\
 -33.34 \\
 \hline
 \underline{62.34}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹} \quad \text{P} \\
 \begin{array}{r}
 89.49 \\
 -44.26 \\
 \hline
 \underline{45.23}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹} \quad \text{P} \\
 \begin{array}{r}
 75.48 \\
 -31.36 \\
 \hline
 \underline{44.12}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{2. (a) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{814}{95.38} \\
 -79.85 \\
 \hline
 \underline{15.53}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(b) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{616}{76.81} \\
 -29.03 \\
 \hline
 \underline{47.78}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(c) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{7}{98.05} \\
 -83.80 \\
 \hline
 \underline{14.25}
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \text{(d) ₹} \quad \text{P} \\
 \begin{array}{r}
 \overset{910}{100.00} \\
 -65.00 \\
 \hline
 \underline{35.00}
 \end{array}
 \end{array}$$

Ex. 11.4

₹

1. Money from grandmother = 200

Money from Uncle = 350

Money from Mother = 155

705

Ans. = ₹ 705

2. Money in Bank = 999.10

Money Withdrawn = 722.85

Balance Left 277.15

₹ 277.15 is left in the account

3. ₹ P

^{99 10}
100.00

– 85.40

14.60

4. Cost of book = 32.75

Cost of Stepler = + 33.95

66.70

Money shopkeeper returned = ^{99 10}100.00

– 66.70

33.30

Shopkeeper returned ₹ 33.30

Ex. 11.5

Quantity	Item	Cost of each	Total Cost
2	Soup tin	₹ 29.50	29.50 × 2 = 59.00
4	Drink Pack	₹ 32.00	32.00 × 4 = 128.00
1	Plastic bucket	₹ 46.65	46.65 × 1 = 46.65
3	Jam tarts	₹ 6.50	6.50 × 3 = 19.50
5	Packet to biscuits	₹ 7.20	7.20 × 5 = 36.00
2	Pickle jar	₹ 35.75	35.75 × 2 = 71.50
6	Oranges	₹ 3.50	3.50 × 6 = 21.00
1	Lemon squash	₹ 46.40	46.40 × 1 = 46.40
10	Buns	₹ 2.80	2.80 × 10 = 28.00

2 Bottles of shampoo ₹ 65.50

$69.50 \times 2 = 139.00$

₹ 595.05

Sum up

1. (a) ₹ 24.35 + ₹ 8.15 + ₹ 3.90 < ₹ 35.20 + ₹ 10.05 + ₹ 4.75
(b) ₹ 32.05 + ₹ 7.05 + ₹ 16.80 < ₹ 90.65 + ₹ 11.45 + ₹ 2.55
(c) ₹ 45.05 + ₹ 10.10 + ₹ 100 < ₹ 85 + ₹ 25 + ₹ 85

2. (a) ₹ P (b) ₹ P (c) ₹ P (d) ₹ P
- | | | | |
|-------------|-------------|-------------|--------------|
| 7.65 | 9.70 | 16.40 | 33.75 |
| -4.25 | -6.45 | -10.55 | 31.10 |
| <u>3.40</u> | <u>3.25</u> | <u>5.85</u> | <u>04.65</u> |

3. (a) ₹ P (b) ₹ P (c) ₹ P (d) ₹ P
- | | | | |
|--------------|--------------|--------------|--------------|
| 2.45 | 3.75 | 26.20 | 35.10 |
| 3.55 | 9.15 | 20.30 | 26.05 |
| 4.75 | + 8.45 | 8.45 | 6.85 |
| <u>10.75</u> | <u>21.35</u> | <u>54.95</u> | <u>68.00</u> |

4. Money in Bank Account = ₹ 8000^{7 9 10}

Money taken out = ₹ 2550

Money left = 5450

∴ ₹ 5450 is left in the bank account.

5. (a) (iv) (b) (ii) (c) (iv) (d) (ii)

CHAPTER 12

Beat the Clock

$$17 \times 4 = 68 \text{ Cows}$$

Total Milk = $68 \times 5 = 340$ liters of milk

Ex. 12.1

1. (a) Mayank (b) 6
2. (a) 5 (b) 30 (c) Yes (d) 40

(e) 100

Ex. 12.2

1. (a) Suman (b) 8 (c) Prem (d) 3

2. (a) Hindi (b) English (c) Science (d) 3

Sum up

1. (a) 30 (b) Parrot (c) 15 (d) 10

2. Do Yourself

Maths MAGIC



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