



# MATHS

## Wizard

(A MAIN COURSE BOOK OF MATHEMATICS)

Math 4  
Solution

# **TEACHER'S HELP BOOK**

# **MATHS WIZARD-4**

## Chapter : 1

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6.	Digits	(a) 2, 7, 9	(b) 7, 0, 8	(c) 4, 5, 3, 6	(d) 8, 5, 7, 2
	Smallest	279	708	3456	2578
	Greatest number	972	870	6543	8752

$$\begin{array}{r}
 \text{7. (a)} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 2 \ 7 \ 8 \ 3 \end{array} & \text{(b)} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \\ 3 \ 5 \ 7 \ 2 \end{array} & \text{(c)} \quad \begin{array}{r} 6 \ 8 \ 9 \ 3 \\ - 3 \ 2 \ 3 \ 4 \\ \hline 3 \ 6 \ 5 \ 9 \end{array} & \text{(d)} \quad \begin{array}{r} 9 \ 8 \ 0 \ 1 \\ - 8 \ 7 \ 6 \ 5 \\ \hline 1 \ 0 \ 3 \ 6 \end{array}
 \end{array}$$

8. (a) 
$$\begin{array}{r} \textcircled{1} \\ 482 \\ 351 \\ +66 \\ \hline 899 \end{array}$$
 (b) 
$$\begin{array}{r} 342 \\ 453 \\ +24 \\ \hline 35 \end{array}$$
 (c) 
$$\begin{array}{r} 1234 \\ 369 \\ +107 \\ \hline 1710 \end{array}$$
 (d) 
$$\begin{array}{r} 3050 \\ 2641 \\ +365 \\ \hline 6056 \end{array}$$

9. (a) 
$$\begin{array}{r} 583 \\ +602 \\ \hline 1185 \\ -315 \\ \hline 870 \end{array}$$
 (b) 
$$\begin{array}{r} 943 \\ +268 \\ \hline 675 \\ -417 \\ \hline 258 \end{array}$$
 (c) 
$$\begin{array}{r} 592 \\ +89 \\ \hline 681 \\ -681 \\ \hline 0 \end{array}$$
 (d) 
$$\begin{array}{r} 4786 \\ +2324 \\ \hline 7110 \\ -5723 \\ \hline 1387 \end{array}$$

10. (a) 
$$\begin{array}{r} 35 \\ \times 50 \\ \hline 00 \end{array}$$
 (b) 
$$\begin{array}{r} 61 \\ \times 20 \\ \hline 00 \end{array}$$
 (c) 
$$\begin{array}{r} 286 \\ \times 40 \\ \hline 000 \end{array}$$
 (d) 
$$\begin{array}{r} 409 \\ \times 70 \\ \hline 000 \end{array}$$
  
 (e) 
$$\begin{array}{r} 175 \\ \times 175 \\ \hline 1750 \end{array}$$
 (f) 
$$\begin{array}{r} 122 \\ \times 122 \\ \hline 1220 \end{array}$$
 (g) 
$$\begin{array}{r} 1144 \\ \times 1144 \\ \hline 11440 \end{array}$$
 (h) 
$$\begin{array}{r} 2863 \\ \times 2863 \\ \hline 28630 \end{array}$$
  
 (e) 
$$\begin{array}{r} 232 \\ \times 70 \\ \hline 000 \end{array}$$
 (f) 
$$\begin{array}{r} 43 \\ \times 24 \\ \hline 172 \end{array}$$
 (g) 
$$\begin{array}{r} 75 \\ \times 63 \\ \hline 225 \end{array}$$
 (h) 
$$\begin{array}{r} 1624 \\ \times 1624 \\ \hline 16240 \end{array}$$
  
 (e) 
$$\begin{array}{r} 1624 \\ \times 1624 \\ \hline 16240 \end{array}$$
 (f) 
$$\begin{array}{r} 860 \\ \times 860 \\ \hline 1032 \end{array}$$
 (g) 
$$\begin{array}{r} 450 \\ \times 450 \\ \hline 4725 \end{array}$$
 (h) 
$$\begin{array}{r} 1436 \\ \times 1436 \\ \hline 16155 \end{array}$$

(i) 
$$\begin{array}{r} 109 \\ \times 48 \\ \hline 872 \end{array}$$
 (j) 
$$\begin{array}{r} 632 \\ \times 43 \\ \hline 1896 \end{array}$$
  
 (i) 
$$\begin{array}{r} 436 \\ \times 2528 \\ \hline 5232 \end{array}$$
 (j) 
$$\begin{array}{r} 2528 \\ \times 436 \\ \hline 27176 \end{array}$$

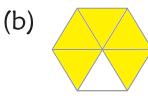
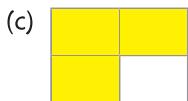
11. (a) 
$$2\overline{)3\ 9(19}$$
 (b) 
$$3\overline{)6\ 5(21}$$
 (c) 
$$8\overline{)6\ 5(8}$$
 (d) 
$$12\overline{)7\ 5(6}$$

12. (a) 
$$\begin{array}{r} 2 \overline{) 168} \\ -16 \\ \hline 08 \\ -8 \\ \hline 0 \end{array}$$

(b) 
$$\begin{array}{r} 4 \overline{) 2346} \\ -20 \\ \hline 34 \\ -32 \\ \hline 26 \\ -24 \\ \hline 2 \end{array}$$

(c) 
$$\begin{array}{r} 5 \overline{) 3545} \\ -35 \\ \hline 045 \\ -45 \\ \hline 0 \end{array}$$

(d) 
$$\begin{array}{r} 8 \overline{) 6424} \\ -64 \\ \hline 024 \\ -24 \\ \hline 0 \end{array}$$



(e)

2. (a) True (b) True (c) True (d) False

3. (a) True (b) True (c) False (d) True (e) True (f) False (g) False (h) False

4. (a) 4 : 00 (b) 4 : 45 (c) 8 : 15 (d) 2 : 25 (e) 10 : 50

5. (a) 0.50 (b) 2550 paise (c) ₹42 (d) ₹98.75 (e) 240 minutes

(f)  $(3 \times 24)$  hrs = **72 hours**

(g) 3 weeks =  $(3 \times 7)$  days = **21 days**

(h) 4 months =  $(4 \times 30)$  = **120 days**

(i) 10 minutes =  $(10 \times 60)$  = **600 second**

(j) 2 weeks =  $(2 \times 7 \times 24)$  = **????**

(k) 8 metres =  $(8 \times 100)$  cm = **800 cm**

(l) 700 cm =  $(700 \div 100)$  m = **7 m**

(m)  $5000 \text{ m} = (5000 \times 1000) \text{ km} = \mathbf{5 \text{ km}}$

(n)  $8 \text{ km} = (8 \times 1000) \text{ m} = \mathbf{8000 \text{ m}}$

(o)  $7 \text{ kg} = (7 \times 1000) \text{ g} = \mathbf{7000 \text{ g}}$

(p)  $2000 \text{ g} = (2000 \times 1000) \text{ kg}$

(q)  $3000 \text{ ml} = (3000 \times 1000) \text{ l} = 3\text{l}$

(r)  $6\text{l} = (6 \times 1000) \text{ ml} = 6000 \text{ ml}$

6. (a)  $2 \text{ hours } 8 \text{ minutes} = (2 \times 60) \text{ min} + 8 \text{ min}$

$$= 120 \text{ min} + 8 \text{ min} = 128 \text{ minutes}$$

(b)  $5 \text{ days } 15 \text{ hours} = (5 \times 24) \text{ hours} + 15 \text{ hours}$

$$= 120 \text{ hours} + 15 \text{ hours} = 135 \text{ hours}$$

(c)  $6 \text{ months } 10 \text{ days} = (6 \times 30) \text{ days} + 10 \text{ days}$

$$= 180 \text{ days} + 10 \text{ days} = 190 \text{ days}$$

(d)  $2 \text{ weeks } 4 \text{ days} = (2 \times 7) \text{ days} + 4 \text{ days}$

$$= 14 \text{ days} + 4 \text{ days} = 18 \text{ days}$$

(e)  $4\text{l } 40 \text{ ml} = (4 \times 100) \text{ ml} + 40 \text{ ml}$

$$= 4000 \text{ ml} + 40 \text{ ml} = 4040 \text{ ml}$$

(f)  $2643 \text{ ml} = 2000 \text{ ml} + 643 \text{ ml}$

$$= (2000 \div 1000) \text{ l} + 643 \text{ ml} = 2\text{l } 643 \text{ ml}$$

(g)  $2 \text{ kg } 500\text{g} = (2 \times 1000) \text{ g} + 500 \text{ g}$

$$= 2000 \text{ g} + 500 \text{ g} = 2500 \text{ g}$$

(h)  $7255\text{g} = 7000 + 255 \text{ g}$

$$= (7000 \div 1000) \text{ kg} + 255 \text{ g}$$

$$= 7 \text{ kg } 255\text{g}$$

(i)  $9\text{m } 80\text{cm} = (9 \times 100) \text{ cm} + 80 \text{ cm}$

$$= 900 \text{ cm} + 80 \text{ cm} = 980 \text{ cm}$$

(j)  $429 \text{ cm} = 400 \text{ cm} + 29 \text{ cm}$

$$= (400 \div 100) \text{ m} + 29 \text{ cm}$$

$$= 4\text{m } 29\text{cm}$$

7. (a)

₹	12.50
+ ₹	231.00
<b>₹ 243.50</b>	

(b)

₹	32.45
₹	259.65
+ ₹	1357.75
<b>₹1649.85</b>	

(c)

₹	89.75
- ₹	37.25
<b>₹ 52.50</b>	

(d)

₹	9631.00
- ₹	1470.50
<b>₹ 8160.50</b>	

(e)

₹	45.35
×	9
<b>₹ 408.15</b>	

(f)

₹	792.85
×	6
<b>₹ 4757.1</b>	

(g) ₹ 64.40 ÷ 8 = ₹ 8.05

(h) ₹ 693 ÷ 3 = ₹ 231.1

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8. Quantity of potatoes = 4 kg

Quantity of onion = 1 kg 500 g

Quantity of spinach = + 0 kg 250 g

Total weight  $\underline{\hspace{2cm}}$  5 kg 750 g

9. Total distance = 4 km

Distance travelled by bus = 55 km 600 m

Distance travelled by car = - 43 km 500 m

Total weight  $\underline{\hspace{2cm}}$  12 km 100 m

10. Oil sold in a day = 28 l 150 ml

No. of days = 6 days

Oil sold in 6 days = 28 l 150 ml × 6

Total weight = 168 l 900 ml

11. No. of trousers = 12

Length of cloth to make a shirt = 25 m 20 cm

Total length of cloth = 25 m 20 cm × 12

= 302 m 40 cm

12.(a) 16 children ; 6 children

(b) 18 children ; 14 children

(c) 54 children

## **Chapter : 2**

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3. (a) 276535, 276545    (b) 621106, 721106  
(c) 490111, 510111    (d) 634999, 834999

4. (a) One lakh eighty one thousand one hundred eighty one.  
(b) Nine lakh ninety nine thousand nine hundred ninety nine.  
(c) Four lakh five hundred one.  
(d) Forty two lakh five thousand nine hundred ninety one  
(e) Fifty one lakh eighty nine thousand one hundred ninety eight.  
(f) Eleven lakh fifty five thousand two hundred twenty two.

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**Chapter : 3**

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6. (a) CD + XIII      (b) L – XXVII      (c) XXXVII + XIII  
(d) XXIX – IX      (e) DCCXXXIII – XX(f) C + LV  
(g) LXXX – XL      (h) CCL + XLV

**Chapter : 4**

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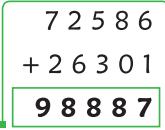
- |        |  |
|--------|--|
| 1. (a) | $\begin{array}{r} 15342 \\ +32421 \\ \hline 47763 \end{array}$ |
| (b)    | $\begin{array}{r} 52048 \\ +37841 \\ \hline 89889 \end{array}$ |
| (c)    | $\begin{array}{r} 96705 \\ +3284 \\ \hline 99989 \end{array}$  |

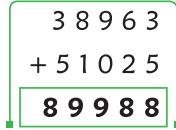
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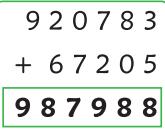
- (d) 
$$\begin{array}{r} 465271 \\ +234506 \\ \hline 699777 \end{array}$$

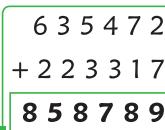
(e) 
$$\begin{array}{r} 314652 \\ +252342 \\ \hline 566994 \end{array}$$

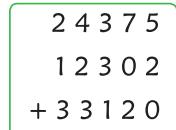
(f) 
$$\begin{array}{r} 50843 \\ +539156 \\ \hline 589999 \end{array}$$

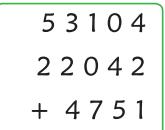
- 2.** (a)   

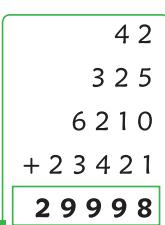
$$\begin{array}{r} 72586 \\ + 26301 \\ \hline 98887 \end{array}$$
- (b)   

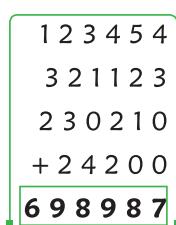
$$\begin{array}{r} 38963 \\ + 51025 \\ \hline 89988 \end{array}$$
- (c)   

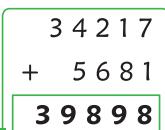
$$\begin{array}{r} 920783 \\ + 67205 \\ \hline 987988 \end{array}$$
- (d)   

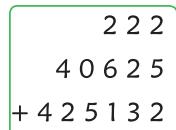
$$\begin{array}{r} 635472 \\ + 223317 \\ \hline 858789 \end{array}$$
- (e)   

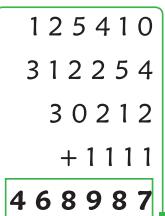
$$\begin{array}{r} 24375 \\ 12302 \\ + 33120 \\ \hline 69797 \end{array}$$
- (f)   

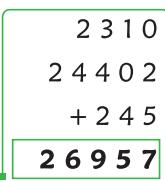
$$\begin{array}{r} 53104 \\ 22042 \\ + 4751 \\ \hline 79897 \end{array}$$
- (g)   

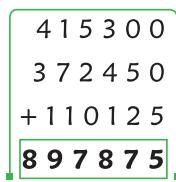
$$\begin{array}{r} 42 \\ 325 \\ 6210 \\ + 23421 \\ \hline 29998 \end{array}$$
- (h)   

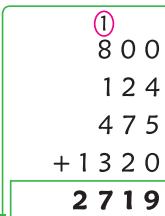
$$\begin{array}{r} 123454 \\ 321123 \\ 230210 \\ + 24200 \\ \hline 698987 \end{array}$$
- 3.** (a) 39127      (b) 11335      (c) 3245  
 (d) 520391      (e) 0      (f) 0  
 (g) 56647
- 4.** (a)   

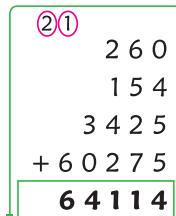
$$\begin{array}{r} 34217 \\ + 5681 \\ \hline 39898 \end{array}$$
- (b)   

$$\begin{array}{r} 222 \\ 40625 \\ + 425132 \\ \hline 465979 \end{array}$$
- (c)   

$$\begin{array}{r} 125410 \\ 312254 \\ 30212 \\ + 1111 \\ \hline 468987 \end{array}$$
- (d)   

$$\begin{array}{r} 2310 \\ 24402 \\ + 245 \\ \hline 26957 \end{array}$$
- (d)   

$$\begin{array}{r} 415300 \\ 372450 \\ + 110125 \\ \hline 897875 \end{array}$$
- 5.** (a)   

$$\begin{array}{r} ① \\ 800 \\ 124 \\ 475 \\ + 1320 \\ \hline 2719 \end{array}$$
- (b)   

$$\begin{array}{r} ②① \\ 260 \\ 154 \\ 3425 \\ + 60275 \\ \hline 64114 \end{array}$$

6. (a) 
$$\begin{array}{r} 48205 \\ +1784 \\ \hline 49989 \end{array}$$
- (b) 
$$\begin{array}{r} 27424 \\ +42453 \\ \hline 69877 \end{array}$$
- (c) 
$$\begin{array}{r} 37562 \\ +801435 \\ \hline 838997 \end{array}$$
- (d) 
$$\begin{array}{r} 123456 \\ +654321 \\ \hline 777777 \end{array}$$
- (e) 
$$\begin{array}{r} 415 \\ 6250 \\ +83232 \\ \hline 89897 \end{array}$$
- (f) 
$$\begin{array}{r} 23544 \\ 43132 \\ +13203 \\ \hline 79879 \end{array}$$
- (g) 
$$\begin{array}{r} 720354 \\ 123012 \\ +46523 \\ \hline 889889 \end{array}$$
- (h) 
$$\begin{array}{r} 514231 \\ 122120 \\ +231637 \\ \hline 867988 \end{array}$$
- (i) 
$$\begin{array}{r} 23123 \\ 42610 \\ +13010 \\ \hline 99898 \end{array}$$
- (j) 
$$\begin{array}{r} 572600 \\ 15234 \\ 201144 \\ +10020 \\ \hline 798998 \end{array}$$
- (k) 
$$\begin{array}{r} 321657 \\ 57210 \\ 10122 \\ +411010 \\ \hline 799999 \end{array}$$
- (l) 
$$\begin{array}{r} 122112 \\ 232124 \\ 403040 \\ +120613 \\ \hline 877889 \end{array}$$
7. (a) 
$$\begin{array}{r} 64315 \\ 30112 \\ +512210 \\ \hline 606637 \end{array}$$
- (b) 
$$\begin{array}{r} 220426 \\ 210251 \\ 22110 \\ +413002 \\ \hline 865789 \end{array}$$
- (c) 
$$\begin{array}{r} 3201 \\ 15500 \\ +145 \\ \hline 18846 \end{array}$$
- (d) 
$$\begin{array}{r} 220111 \\ 705283 \\ +62404 \\ \hline 987798 \end{array}$$
8. (a) 
$$\begin{array}{r} 23412 \\ 41250 \\ +17552 \\ \hline 82214 \end{array}$$
- (b) 
$$\begin{array}{r} 315670 \\ 242105 \\ +120214 \\ \hline 677989 \end{array}$$
- (c) 
$$\begin{array}{r} 4500 \\ 21350 \\ +863120 \\ \hline 888970 \end{array}$$

(d)

6	1	0	4	2	0
2	5	1	5	7	
3	2	0	0		
+ 2 1 0 2					
<b>6 4 0 8 7 9</b>					

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6. (a)

7	3	2	6	5	
+ 1	5	4	4	6	
<b>8 8 7 1 1</b>					

(b)

6	2	5	7	6	
+ 3	5	4	3	8	
<b>9 8 0 1 4</b>					

(c)

2	6	8	2	5	
+ 4	3	9	7	6	
<b>7 0 8 0 1</b>					

(d)

5	6	3	7	8	9
+ 2	1	7	1	4	3
<b>7 8 0 9 3 2</b>					

(e)

7	8	5	6	3	6
+ 9	3	6	7	5	
<b>8 7 9 3 1 1</b>					

(f)

3	9	5	8	4	9
+ 2	0	7	2	8	9
<b>6 0 3 1 3 8</b>					

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2. (a)

8	2	4	6	3	
+ 6	5	3	8		
<b>8 9 0 0 1</b>					

(b)

1	5	8	7	5	
+ 3	9	1	7	8	
<b>5 5 0 5 3</b>					

(c)

2	6	8	2	5	
+ 4	3	9	7	6	
<b>7 0 8 0 1</b>					

(d)

4	6	0	8	3	
4	5	6	3	9	
+ 3	3	5	2		
<b>9 5 0 7 4</b>					

(e)

9	1	6	4		
8	2	5	3	7	
+ 7	0	2	0	8	
<b>1 6 1 9 0 9</b>					

(f)

5	6	7			
9	9	0	1		
2	3	4	5	5	
+ 7	8	9	0	1	2
<b>8 2 2 9 3 5</b>					

(g)

1	4	8	2	6	0
2	5	9	3	7	4
3	6	0	4	8	2
+ 1	7	1	5	9	3
<b>9 3 9 7 0 9</b>					

3. (a)

2	5	3	1	8	
+ 7	4	9	2		
<b>3 2 8 1 0</b>					

(b)

1	7	8	5		
3	4	5	1		
+ 5	4	5	3	8	5
<b>5 5 0 6 2 1</b>					

(c)

3	5	1	7		
6	4	5	0	1	
+ 1	6	7	4	9	
<b>8 4 7 6 7</b>					

(d)

$$\begin{array}{r}
 6\ 3\ 8\ 0\ 0\ 0 \\
 1\ 5\ 4\ 0\ 5\ 6 \\
 +\ 8\ 9\ 1\ 6\ 4 \\
 \hline
 8\ 8\ 1\ 2\ 2\ 0
 \end{array}$$

4. (a)

$$\begin{array}{r}
 5\ 7\ \boxed{2}\ 3\ 4 \\
 +\ \boxed{2}\ 2\ 5\ 8\ \boxed{3} \\
 \hline
 7\ 9\ 8\ \boxed{1}\ 7
 \end{array}$$

(b)

$$\begin{array}{r}
 8\ \boxed{8}\ 5\ \boxed{6}\ 0 \\
 +\ 4\ 2\ 7\ \boxed{5} \\
 \hline
 \boxed{9}\ 2\ \boxed{8}\ 3\ 5
 \end{array}$$

(c)

$$\begin{array}{r}
 2\ 5\ \boxed{0}\ 4\ \boxed{1}\ 6 \\
 1\ \boxed{3}\ 9\ \boxed{2}\ 5\ \boxed{3} \\
 \hline
 2\ 3\ 1\ 6\ 8\ 2 \\
 \hline
 6\ 2\ 1\ 3\ 5\ 1
 \end{array}$$

(d)

$$\begin{array}{r}
 6\ \boxed{0}\ 3\ \boxed{4}\ 2\ 2 \\
 \boxed{3}\ 5\ \boxed{0}\ 5\ 8\ 4 \\
 +\ 2\ 4\ 7\ 2\ \boxed{1}\ 6 \\
 \hline
 1\ 2\ 0\ 1\ 4\ 9\ 2
 \end{array}$$

5. (a)

$$\begin{array}{r}
 3\ 7\ 9\ 3\ 7 \\
 +\ 7\ 3\ 0\ 9\ 6 \\
 \hline
 1\ 1\ 1\ 0\ 3\ 3
 \end{array}$$

(b)

$$\begin{array}{r}
 5\ 6\ 3\ 8\ 6 \\
 +\ 4\ 6\ 5\ 1\ 8 \\
 \hline
 1\ 0\ 2\ 9\ 0\ 4
 \end{array}$$

(c)

$$\begin{array}{r}
 6\ 5\ 2\ 7\ 4\ 8 \\
 +\ 2\ 5\ 7\ 6\ 1\ 5 \\
 \hline
 9\ 1\ 0\ 3\ 6\ 3
 \end{array}$$

(d)

$$\begin{array}{r}
 7\ 4\ 0\ 8\ 3\ 8 \\
 +\ 8\ 9\ 7\ 4\ 5 \\
 \hline
 8\ 3\ 0\ 5\ 8\ 3
 \end{array}$$

(e)

$$\begin{array}{r}
 5\ 8\ 7\ 6\ 2 \\
 1\ 0\ 3\ 6 \\
 +\ 6\ 2\ 2\ 5\ 8 \\
 \hline
 1\ 2\ 2\ 0\ 5\ 6
 \end{array}$$

(f)

$$\begin{array}{r}
 1\ 2\ 3\ 4\ 5\ 6 \\
 5\ 4\ 3\ 2\ 1\ 6 \\
 +\ 5\ 1\ 4\ 2\ 6 \\
 \hline
 7\ 1\ 8\ 0\ 9\ 8
 \end{array}$$

(g)

$$\begin{array}{r}
 3\ 6\ 9\ 2\ 5\ 8 \\
 1\ 4\ 7\ 1\ 4 \\
 2\ 3\ 4\ 5\ 6\ 7 \\
 +\ 8\ 9\ 0\ 1\ 2 \\
 \hline
 7\ 0\ 7\ 5\ 5\ 1
 \end{array}$$

(h)

$$\begin{array}{r}
 4\ 0\ 6\ 2\ 1\ 9 \\
 3\ 9\ 5\ 1\ 3\ 0 \\
 2\ 8\ 4\ 0\ 5\ 1 \\
 +\ 1\ 7\ 3\ 9\ 7\ 2 \\
 \hline
 1\ 2\ 5\ 9\ 3\ 7\ 2
 \end{array}$$

**Page – 30**

6. (a)

$$\begin{array}{r}
 4\ 3\ 6\ 9 \\
 3\ 5\ 7\ 2\ 6 \\
 +\ 6\ 4\ 8\ 5\ 0 \\
 \hline
 1\ 0\ 4\ 9\ 4\ 5
 \end{array}$$

(b)

$$\begin{array}{r}
 5\ 2\ 7\ 6\ 8 \\
 3\ 5\ 4\ 3\ 7 \\
 +\ 6\ 3\ 0\ 2\ 5\ 0 \\
 \hline
 7\ 1\ 8\ 4\ 5\ 5
 \end{array}$$

(c)

$$\begin{array}{r}
 5\ 8 \\
 6\ 4\ 1\ 2 \\
 6\ 0\ 4\ 7\ 9 \\
 +\ 4\ 2\ 3\ 4\ 0\ 5 \\
 \hline
 4\ 9\ 0\ 3\ 5\ 4
 \end{array}$$

(d)

4	3	8	5	2	6
5	8	3	2	6	4
2	3	0	2	5	2
+ 3 5 4 1 0					
<b>1 2 8 7 4 5 2</b>					

1. No. of boys = 48730
- No. of girls = + 44241
- Total no. of children = **92971**
  
2. Books sold in 2017 = 63490
- Boks sold in 2018 =  $63490 + 5800 = 69290$
- Books sold in 2019 =  $69290 + 5800 = \text{75090}$
  
3. Cost of Mayur car = ₹ 477850  
= + ₹ 280500  
Cost of Hans car = **₹ 758350**
  
4. No. of chocolates sold in 1st year = 1850480  
No. of chocolates sold in 11st year = 1035620  
No. of chocolates sold in 111st year = + 928550  
Total no. of chocolateews = **3814650**

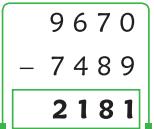
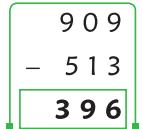
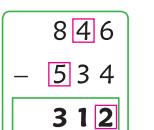
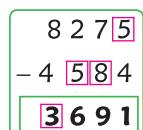
### Page – 31

5. Required number =  $50780 + 15220$   
= **66000**
6. Required number =  $410586 + 289625$   
= **700211**
7. Let the number be  $x$ .  
 $x - 47526 = 68195$   
 $x = 68195 + 47526$   
= **115721**
8. Sum =  $135606 + 257810 = 393416$   
Required sum =  $393416 + 65280$   
= **458696**

9. Population of Ist town = 50125  
 Population of IInd town = 132150  
 Population of IIInd town = + 62575  
 Total population = **244853**
10. Money saved in Ist bank = ₹ 410825  
 Money saved in IInd bank = + ₹ 345250  
 Money saved in IIIrd bank = ₹ 574338  
 Total savings = **₹ 1330413**
11. Money in a game show = ₹ 525400  
 Money in a quiz show = + ₹ 268750  
 Money in a dance competition = ₹ 150650  
**₹ 944800**
12. Distance covered in Ist year = 15769 km  
 Distance covered in IInd year = + 12520 km  
 Distance covered in IIIrd year = 16485 km  
 Total distance covered **44774 km**

## Chapter : 5

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1. (a)   
 (b) 
2. (a)   
 (b) 

3. Total no. of votes = 6885  
 Votes got by person A = - 2875  
 Votes got by person B = **4010**

4. Let the number be x

$$x - 1509 = 7546$$

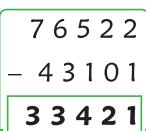
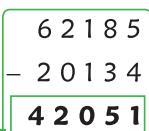
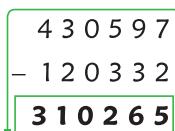
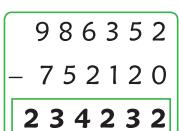
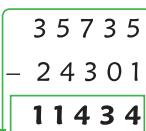
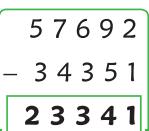
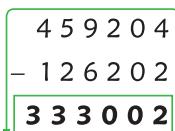
$$x = 7546 + 1509$$

$$= \boxed{9055}$$

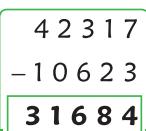
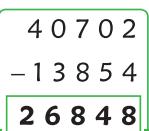
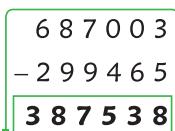
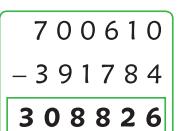
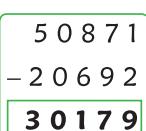
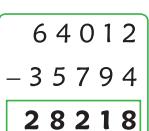
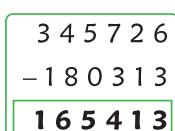
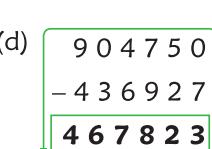
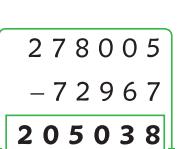
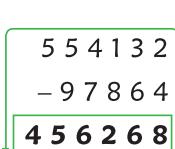
5. (a)  $532 - 86 = \mathbf{446}$  (b)  $5307 - 148 = \mathbf{5159}$   
 (c)  $7815 - 54 = \mathbf{7761}$  (d)  $5216 - 4312 = \mathbf{904}$   
 (e)  $9890 - 7800 = \mathbf{2090}$  (f)  $2000 - 1199 = \mathbf{801}$

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1. (a)  $57487 - 36312 = \mathbf{21175}$  (b)  $65716 - 32405 = \mathbf{33311}$   
 (c)  $928492 - 716430 = \mathbf{212062}$  (d)  $440171 - 310023 = \mathbf{130148}$

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

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1. (a)   
 (b)   
 (c)   
 (d)   
  
 2. (a)   
 (b)   
 (c)   
 (d)   
 (e)   
 (f) 

3. (a)

Output
2 4 9 6 6
1 8 1 0 7
3 8 5 1 7
2 9 1 0 0 3
3 5 2 1 1 9

(d)

Output
6 8 2 4 3
4 4 1 9 7
3 8 0 2 6 3
5 0 3 1 8 2
2 8 9 7 5 3

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4. (a) Incorrect

(b) Correct

### Page – 41

1. (a)

$$\begin{array}{r} 58763 \\ -24541 \\ \hline 34222 \end{array}$$

(b)

$$\begin{array}{r} 82064 \\ -37983 \\ \hline 44081 \end{array}$$

(c)

$$\begin{array}{r} 964731 \\ -524310 \\ \hline 440421 \end{array}$$

(d)

$$\begin{array}{r} 843002 \\ -659748 \\ \hline 183254 \end{array}$$

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2. (a)

$$\begin{array}{r} 46216 \\ -14103 \\ \hline 32110 \end{array}$$

(b)

$$\begin{array}{r} 78036 \\ -49157 \\ \hline 28879 \end{array}$$

(c)

$$\begin{array}{r} 92003 \\ -62110 \\ \hline 29893 \end{array}$$

(d)

$$\begin{array}{r} 325156 \\ -100032 \\ \hline 225124 \end{array}$$

(e)

$$\begin{array}{r} 602071 \\ -341598 \\ \hline 260473 \end{array}$$

(f)

$$\begin{array}{r} 508906 \\ -9984 \\ \hline 498922 \end{array}$$

3. (a)

$$\begin{array}{r} 5\boxed{3}13\boxed{6} \\ +\boxed{2}01\boxed{1}4 \\ \hline 33\boxed{0}22 \end{array}$$

(b)

$$\begin{array}{r} 67\boxed{5}8\boxed{9}1 \\ -4\boxed{3}256\boxed{1} \\ \hline 243\boxed{3}30 \end{array}$$

(c)

$$\begin{array}{r} 76403 \\ -\boxed{3}8\boxed{5}16 \\ \hline 378\boxed{8}\boxed{7} \end{array}$$

(d)

$$\begin{array}{r} 915084 \\ -\boxed{5}6\boxed{4}42\boxed{7} \\ \hline 350\boxed{6}\boxed{5}7 \end{array}$$

**1.** Money with Alan = ₹ 800000

Cost of plot = – ₹ 762000

Money left = ₹ 38000

**2.** Smallest 6 – digit number = 100000

Greatest 5– digit number = – 99999

Difference = 1

**3.** Sale price of plot = ₹ 426343

Cost price of plot = – ₹ 395564

Profit = ₹ 30779

**4.** Let the number be  $x$

$$x + 156580 = 526389$$

$$x = 526389 - 156580$$

$$= \underline{\underline{369809}}$$

**5.** Population in 2015 = 132586

Population in 2014 = – 78392

Increase in population = 54194

**6.** Total population = 193569

No. of females = – 61382

No. of males = 132187

**7.** Total length of wire = 85354 m

Length of wire cut = – 1 700 m

Length of remaining wire = 83654 m

**8.** Let the number be  $x$

$$x + 38769 = 100000$$

$$x + 10000 - 38769$$

$$x = \underline{\underline{61231}}$$

**9.** Let the number be  $x$

$$835439 - x = 50000$$

$$x = 835439 - 50000$$

$$= \underline{\underline{785439}}$$

**MODEL TEST PAPER -II**






8. (a) 

$$(b) \quad \begin{array}{r} 40702 \\ -13854 \\ \hline 26848 \end{array}$$

$$\begin{array}{r}
 (c) \quad 687003 \\
 - 299465 \\
 \hline
 387538
 \end{array}$$

(d) 
$$\begin{array}{r} 700610 \\ -391784 \\ \hline 308826 \end{array}$$



# **Chapter : 6**

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- 1.** (a) 149      (b) 6487      (c) 0      (d) 0  
 (e) 620      (f) 1      (g) 1683      (h) 4213

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- |                    |             |            |             |
|--------------------|-------------|------------|-------------|
| (i) 417            | (j) 42      | (k) 65     | (l) 517     |
| (m) 48             | (n) 725     | (o) 54     | (p) 3106    |
| (q) 103            | (r) 25      |            |             |
| <b>2.</b> (a) 8700 | (b) 37100   | (c) 37000  | (d) 19800   |
| (e) 55500          | (f) 42700   | (g) 8900   | (h) 156000  |
| (i) 575000         | (j) 25400   |            |             |
| <b>3.</b> (a) 3810 | (b) 72800   | (c) 124200 | (d) 167200  |
| (e) 8000           | (f) 234000  | (g) 213500 | (h) 5000000 |
| (i) 65700          | (j) 5886000 | (k) 515000 | (l) 978000  |

$$4. \text{ (a)} \quad 3 \times 37 \times 5 = 37 \times 10 = \mathbf{370}$$

$$(b) \ 50 \times 27 \times 4 = 27 \times 200 = 5400$$

$$(c) \quad 10 \times 81 \times 100 = 81 \times 1000 = \mathbf{81000}$$

$$(d) \ 50 \times 108 \times 2 = 108 \times 100 = \mathbf{10800}$$

1. (a) 
$$\begin{array}{r} 246 \\ \times 29 \\ \hline 7134 \end{array}$$

(b) 
$$\begin{array}{r} 778 \\ \times 45 \\ \hline 35010 \end{array}$$

(c) 
$$\begin{array}{r} 677 \\ \times 54 \\ \hline 36558 \end{array}$$

(d) 
$$\begin{array}{r} 872 \\ \times 654 \\ \hline 570288 \end{array}$$

(e) 
$$\begin{array}{r} 816 \\ \times 158 \\ \hline 128928 \end{array}$$

(f) 
$$\begin{array}{r} 134 \\ \times 189 \\ \hline 25326 \end{array}$$

(g) 
$$\begin{array}{r} 375 \\ \times 240 \\ \hline 90000 \end{array}$$

(h) 
$$\begin{array}{r} 586 \\ \times 880 \\ \hline 515680 \end{array}$$

(i) 
$$\begin{array}{r} 3490 \\ \times 29 \\ \hline 101210 \end{array}$$

(j) 
$$\begin{array}{r} 1378 \\ \times 321 \\ \hline 442338 \end{array}$$

(k) 
$$\begin{array}{r} 5138 \\ \times 222 \\ \hline 1140636 \end{array}$$

(l) 
$$\begin{array}{r} 3746 \\ \times 536 \\ \hline 2007856 \end{array}$$



- |   |   |  |
|---|---|--|
| 3. (a)  | (b)   | (c)  |
| $  \begin{array}{r}  214 \\  \times 17 \\  \hline  1492 \\  2140 \\  \hline  3638  \end{array}  $ | $  \begin{array}{r}  378 \\  \times 34 \\  \hline  1512 \\  11340 \\  \hline  12852  \end{array}  $ | $  \begin{array}{r}  128 \\  \times 32 \\  \hline  640 \\  3840 \\  \hline  4480  \end{array}  $ |

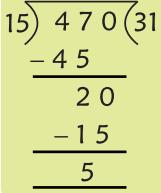
- Monthly fee = ₹ 259  
No. of months in 3 years = 36  
Total amount of fee = ₹  $259 \times 36$   
= ₹ 9324

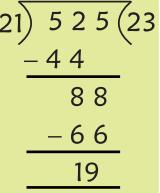
- 2.** Weight of a box = 1025 g  
 No. of boxes = 364  
 Total weight =  $1025 \text{ g} \times 364 = \mathbf{373100\text{g}}$
- 3.** Cloth woven in a month = 375 m  
 No. of months in 2 years = 24  
 Total cloth woven =  $375 \text{ m} \times 24 = \mathbf{9000\text{m}}$
- 4.** No. of books in an almirah = 158  
 No. of almirahs = 672  
 No. of books =  $158 \times 672 = \mathbf{106176 \text{ books}}$
- 5.** Price of a notebook = ₹ 63  
 No. of notebooks = 892  
 Total cost =  $892 \times ₹ 63 = ₹ \mathbf{56196}$
- 6.** Cloth produced in a day = 298m  
 No. of days in January = 31  
 Total length of cloth =  $298\text{m} \times 31$   
 $= \mathbf{9238\text{m}}$
- 7.** Quantity of rice in a bag = 50Kg  
 No. of bags = 225  
 Total quantity of rice =  $225 \times 50 \text{ kg}$   
 $= \mathbf{11250 \text{ kg}}$
- 8.** No. of passengers carried in a round = 55  
 No. of rounds = 315  
 Total no. of passengers =  $55 \times 315$   
 $= \mathbf{17325}$

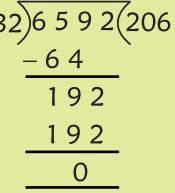
## Chapter : 7

### Page – 60

- |           |         |        |         |
|-----------|---------|--------|---------|
| 1. (a) 62 | (b) 153 | (c) 1  | (d) 185 |
| 2. (a) 1  | (b) 19  | (c) 0  | (d) 0   |
| 3. (a) 21 | (b) 90  | (c) 91 | (d) 80  |

4. (a) 

(b) 

(c) 

**Q = 31**

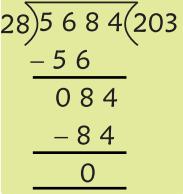
**R = 5**

**Q = 23**

**R = 19**

**Q = 206**

**R = 0**

(d) 

**Q = 203**

**R = 0**

5. (a) 8      (b) 6      (c) 6      (d) 8

6. (a) 11      (b) 15.167      (c) 308      (d) 223.2      (e) 420

7. (a) 14      (b) 18      (c) 22      (d) 21      (e) 13.03

8. (a) 132      (b) 127      (c) 203      (d) 184.33      (e) 66

9. (a) 806      (b) 1045.83      (c) 212.08      (d) 960      (e) 2060

10. (a) 8300      (b) 5043.83      (c) 8507      (d) 12623.31

- (e) 3760.13

11. (a) 5.33      (b) 7.11      (c) 29      (d) 28.57      (e) 78

12. (a) 18.05      (b) 8      (c) 9      (d) 7.05      (e) 9.45

13. (a) 25      (b) 42.11      (c) 115.70      (d) 406      (e) 320.09

14. (a) 70      (b) 800      (c) 508.09      (d) 9999      (e) 7051.01

15. (a) 7.63      (b) 10      (c) 369.04      (d) 63.09

- (c)  $Q = 19$ ,  $R = 2$       (b)  $Q = 36$ ,  $R = 0$   
 (e)  $Q = 132$ ,  $R = 8$       (f)  $Q = 7395$ ,  $R = 4$   
 (g)  $Q = 5$ ,  $R = 12$       (h)  $Q = 79$ ,  $R = 4$   
 (i)  $Q = 22$ ,  $R = 12$       (j)  $Q = 406$ ,  $R = 0$   
 (k)  $Q = 2$ ,  $R = 345$       (l)  $Q = 30$ ,  $R = 742$   
 (m)  $Q = 845$ ,  $R = 120$       (n)  $Q = 74$ ,  $R = 5132$
- 2.** (a) 8      (b) 6      (c) 12      (d) 30  
 (e) 29      (f) 710      (g) 6      (h) 31  
 (i) 60      (j) 6      (k) 11      (l) 20
- 3.** (a) 7      (b) 7      (c) 5.95      (d) 3      (e) 5.38
- 4.** (a) 11      (b) 10.97      (c) 35.49      (d) 123      (e) 400
- 5.** (a) 5      (b) 3.04      (c) 3      (d) 1.200  
 (e) 4
- 6.** (a) 50      (b) 8      (c) 18.11      (d) 5.62      (e) 60
- 7.** (a) 90      (b) 82      (c) 406      (d) 349.5  
 (e) 507
- 8.** (a) 8      (b) 50      (c) 5      (d) 700

- 1.** Rahul's mother spends 240 minutes at her clinic.

Let's convert it into hours

$$240 \text{ minutes} = (240 \div 60) \text{ hours} \quad (\because 1 \text{ hour} = 60 \text{ min}) \\ = 4 \text{ hours}$$

- 2.** 2100 seconds =  $(2100 \div 60)$  minutes.

$$= 35 \text{ minutes}$$

Hence, the T.V show is **35 minutes** long.

- 3.** 7200 hours =  $(7200 \div 24)$  days  
 = **300 minutes**

Hence, Sadhu did not speak for **300 days**.

4. Total no. of party caps = 4213

No. of caps in each box = 64

No. of boxes = **65**

No. of caps left = **53**

$$\begin{array}{r} 64)4213(64 \\ 384 \\ \hline 373 \\ 320 \\ \hline 53 \end{array}$$

5. Total quantity of rice = 15408 kg

Share of each family = 36 kg

Hence, no. of families in the village os **428**.

No. of caps left = 0

$$\begin{array}{r} 36)15408(428 \\ -144 \\ \hline 100 \\ -72 \\ \hline 288 \\ -288 \\ \hline 0 \end{array}$$

6. Total money collected = ₹ 78000

Money collected from each flat = ₹ 250

Hence, no. of flats are **312**.

$$\begin{array}{r} 250)78000(312 \\ -750 \\ \hline 300 \\ -250 \\ \hline 500 \\ -500 \\ \hline 0 \end{array}$$

## Page – 66

1. (a)  $6240 \div 4 \times 20 + 18 - 52$

$$= 1560 \times 20 + 18 - 52$$

$$= 31200 + 18 - 52$$

$$= 31218 - 52$$

$$= \mathbf{31116}$$

- (b)  $2664 \div 8 \times 3 - 20 \times 10 + 132 \times 3$

$$= 333 \times 3 - 20 \times 10 + 132 \times 3$$

$$= 999 - 200 + 396$$

$$= 1395 - 200$$

$$= \mathbf{1195}$$

$$\begin{aligned}
 (c) \quad & 3600 \div 90 \times 9 + 5 \times 24 - 120 \div 6 \\
 & = 40 \times 9 + 5 \times 24 - 20 \\
 & = 360 + 120 - 20 \\
 & = 480 - 20 \\
 & = \mathbf{460}
 \end{aligned}$$

$$\begin{aligned}
 (d) \quad & 480 \div 15 \times 8 - 320 \div 4 \times 3 + 5 \\
 & = 32 \times 8 - 80 \times 3 + 5 \\
 & = 256 - 240 + 5 \\
 & = 261 - 240 \\
 & = \mathbf{21}
 \end{aligned}$$

**2.** Total money with Rohit = ₹ 25000

$$\begin{aligned}
 \text{Rohit keeps for himself} & = ₹ 11000 \\
 \text{Money left} = ₹ 25000 - ₹ 11000 & = ₹ 14000 \\
 \text{Money with each member} & = ₹ \frac{14000}{7} \\
 & = ₹ \mathbf{2000}
 \end{aligned}$$

**3.** Total cost of fridge = ₹ 35000

$$\begin{aligned}
 \text{Money paid to the shopkeeper} & = ₹ 15000 \\
 \text{Money left} = ₹ 35000 - ₹ 15000 & = ₹ 20000 \\
 \text{Money paid in each part} & = ₹ \frac{20000}{4} \\
 & = ₹ \mathbf{5000}
 \end{aligned}$$

**4.** No. of girls = 16

No. of boys = 12

No. of groups to be divided = 4

$$\text{No. of members of girls} = \frac{16}{4} = 4$$

$$\text{No. of members of boys} = \frac{12}{4} = \mathbf{3}$$

**5.** Total no. of erasers = 1575

No. of erasers in each box = 15

$$\text{No. of boxes} = \frac{1575}{15} = \mathbf{105}$$

- 6.** The largest 4-digit numbers = 9999  
 Ist. no. = 11 = 15  
 Let the 2nd number be x  
 $11 \times x = 9999$   
 $x = 909$   
 Hence, the 2nd number is **909**.

**7.** Cost of 25 kg of rice = ₹ 1500  
 Cost of 1 kg of rice = ₹  $\frac{1500}{25}$   
 Cost of 75 kg of rice = ₹  $\frac{1500}{25} \times 75$   
= ₹ **4500**

Hence, the cost of 75 kg of rice is ₹ 4500

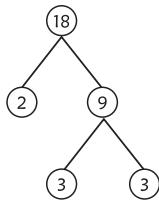
8. (a)  $3600 \div 60 \times 3 + 900 - 450$   
 $= 60 \times 3 + 900 - 450$   
 $= 180 + 900 - 450$   
 $= 1080 - 450$   
 $= \mathbf{630}$

(b)  $140 \div 5 + 4x \times 120 - 80$   
 $= 28 + 4 \times 120 - 80$   
 $= 28 + 480 - 80$   
 $= 508 - 80$   
 $= \mathbf{428}$

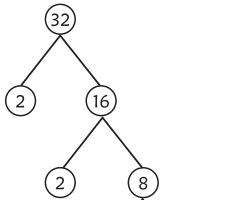
# **Chapter : 8**

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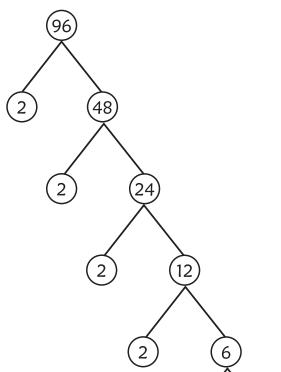
**2. (a)**



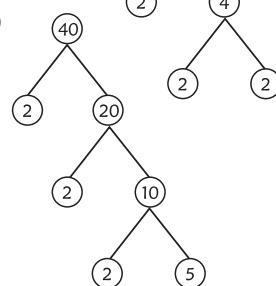
**(b)**



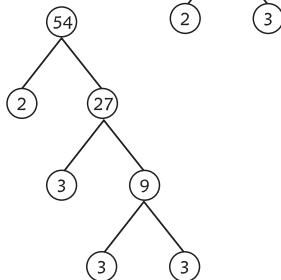
**(c)**



**(d)**



**(e)**



**3. (a) 1, 2, 4**

**(b) 1 and 3**

**(c) 1, 2, 3, 4, 6, 12**

**(d) 1 and 2**

**(e) 1 and 5**

**(f) 1, 2 and 4**

**4. 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29.**

**5. (a) 2**

**(d) True**

**(e) 1**

**1. (a) 6, 12, 18, 24**

**(b) 40**

**(c) 44**

**(d) 3, 6, 9, 12, 15**

**2. (a) 10, 18, 22**

**(b) 20, 26, 28**

**(c) 46, 56, 111**

**(d) 38, 92, 121**

3. (a) Yes,  $5 \times 16 = 80$       (b) No  
(c) Yes,  $8 \times 18 = 144$

4. (a) 40, 45, 50, 55  
(b) 48, 54, 60, 66  
(c) 77, 88, 99, 110  
(d) 120, 130, 140, 150

5. (a) 35, 70  
(b) 32, 64  
(c) 18, 36

1. (a), (b), (e), (f) all have 0, 2, 4, 6, 8 at their ones place. Thus, they are divisible by 2.

2. (a) Sum of the digits =  $8 + 6 = 14$   
14 is not divisible by 3  
Thus, 86 is not divisible by 3.

(b) Sum of the digits =  $1 + 2 + 36 = 9$   
9 is divisible by 3  
Thus, 126 is divisible by 3.

(c) Sum of the digits =  $2 + 1 + 9 = 12$   
12 is divisible by 3  
Thus, 219 is divisible by 3.

(d) Sum of the digits =  $3 + 1 + 4 = 8$   
8 is not divisible by 3  
Thus, 314 is not divisible by 3.

(e) Sum of the digits =  $5 + 4 + 3 = 12$   
12 is divisible by 3  
Thus, 543 is divisible by 3.

(f) Sum of the digits =  $9 + 0 + 6 = 15$   
15 is divisible by 3  
Thus, 906 is divisible by 3.

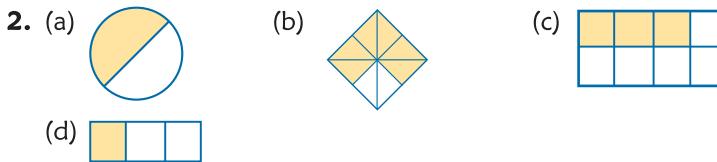
3. (a), (b), (e), (f) all are divisible by 5 because they all have 0 and 5 at their ones place.
4. (a), (c), (d), (f) all have 0 at their ones place. Thus, they are divisible by 10.

## Chapter : 9

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1. (a)  $\frac{6}{8}$       (b)  $\frac{5}{8}$       (c)  $\frac{2}{4}$

(c)  $\frac{4}{5}$       (e)  $\frac{1}{4}$       (f)  $\frac{2}{3}$



3. (a)  $\frac{2}{5}$       (b)  $\frac{3}{16}$       (c)  $\frac{2}{8}$

(d)  $\frac{4}{15}$       (e)  $\frac{18}{47}$       (f)  $\frac{7}{30}$

4. (a) Numerator = **2**, Denominator = **15**

(c) Numerator = **4**, Denominator = **16**

(d) Numerator = **10**, Denominator = **13**

(e) Numerator = **15**, Denominator = **28**

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5. (a)  $\frac{1}{8}$       (b)  $\frac{4}{6}$       (c)  $\frac{3}{7}$

(d)  $\frac{4}{10}$       (e)  $\frac{5}{10}$       (f)  $\frac{8}{9}$

(g)  $\frac{4}{12}$       (h)  $\frac{11}{15}$       (i)  $\frac{12}{13}$

6. (a)  $\frac{4}{12}, \frac{6}{18}, \frac{8}{24}$       (b)  $\frac{4}{10}, \frac{6}{15}, \frac{8}{20}$

(c)  $\frac{6}{16}, \frac{9}{24}, \frac{12}{32}$       (d)  $\frac{52}{80}, \frac{78}{120}, \frac{104}{160}$

(e)  $\frac{24}{30}, \frac{36}{45}, \frac{48}{60}$       (f)  $\frac{26}{34}, \frac{39}{51}, \frac{52}{68}$

## 1. Do It yourself.



By cross multiplying, we find that,

$$4 \times 32 = 128 \text{ and } 16 \times 8 = 128$$

Thus, two cross products are equal

Hence,  $\frac{4}{8}$  and  $\frac{16}{32}$  are equivalent.

$$(b) \frac{5}{19} \text{ and } \frac{15}{38}$$

$$5 \times 38 = 190 \text{ and } 15 \times 19 = 285$$

Two cross products are not equal.

Hence,  $\frac{5}{19}$  and  $\frac{15}{38}$  are not equal.

(c)  $\frac{12}{26}$  and  $\frac{6}{13}$

$$12 \times 13 = 156 \text{ and } 6 \times 26 = 156$$

Two cross products are equal.

Hence,  $\frac{12}{26}$  and  $\frac{6}{13}$  are equal.

(d)  $\frac{7}{2}$  and  $\frac{28}{4}$

$$7 \times 144 = 1008$$

Two cross products are equal.

7 28

Hence, 36 and 144 are equal.

5 1

$$5 \times 3 = 15 \text{ ai}$$

Two cross products are equal

5 1

Hence,  $\frac{15}{3}$  are equal.

(f)  $\frac{2}{18}$  and  $\frac{1}{20}$

$2 \times 20 = 40$  and  $1 \times 18 = 18$

Two cross products are not equal.

Hence,  $\frac{2}{18}$  and  $\frac{1}{20}$  are not equal.

4. (a)  $\frac{9}{12}$

(b)  $\frac{18}{24}$

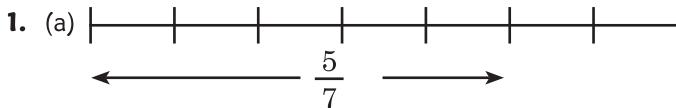
(c)  $\frac{12}{16}$

(d)  $\frac{18}{24}$

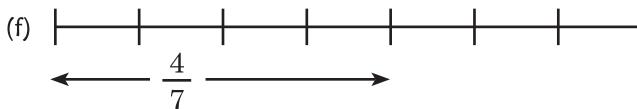
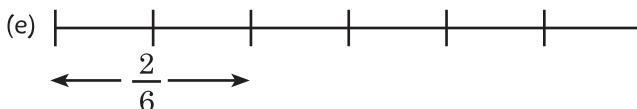
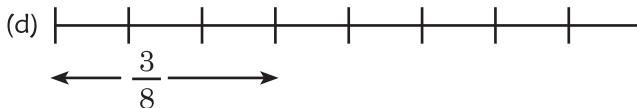
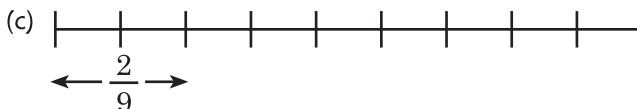
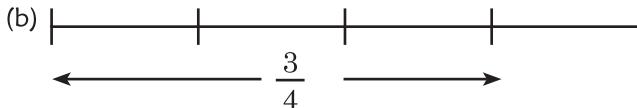
5. (a)  $\frac{36}{70}$

(b)  $\frac{10}{12}$

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1. (a) <                    (b) >                    (c) <                    (d) <  
(e) >                    (f) <                    (g) <                    (h) <
2. (a)  $\frac{1}{9}, \frac{2}{9}, \frac{6}{9}, \frac{8}{9}$                     (b)  $\frac{1}{7}, \frac{2}{7}, \frac{4}{7}, \frac{5}{7}$   
(c)  $\frac{7}{13}, \frac{8}{13}, \frac{9}{13}, \frac{12}{13}$                     (d)  $\frac{4}{15}, \frac{5}{15}, \frac{8}{15}, \frac{12}{15}$
3. (a)  $\frac{6}{9}, \frac{6}{12}, \frac{6}{15}, \frac{6}{18}$                     (b)  $\frac{5}{2}, \frac{5}{4}, \frac{5}{7}, \frac{5}{8}$   
(c)  $\frac{11}{7}, \frac{11}{8}, \frac{11}{9}, \frac{11}{10}$                     (d)  $\frac{7}{1}, \frac{8}{3}, \frac{8}{4}, \frac{8}{7}$

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1. (a)  $\frac{24}{36} \div \frac{12}{12} = \frac{2}{3}$                     (b)  $\frac{42}{46} \div \frac{2}{2} = \frac{21}{23}$   
(c)  $\frac{18}{27} \div \frac{9}{9} = \frac{2}{3}$                     (d)  $\frac{10}{18} \div \frac{2}{2} = \frac{5}{9}$   
(e)  $\frac{44}{144} \div \frac{4}{4} = \frac{11}{36}$                     (b)  $\frac{35}{125} \div \frac{5}{5} = \frac{7}{25}$

2. (a), (d), (f), (g), (h), (l) are in the lowest form.

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1. (a)  $\frac{1}{7}, \frac{1}{100}, \frac{1}{25}$

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2. (a) Improper                    (b) Improper  
(c) Proper                      (d) Proper  
(e) Improper                      (f) Improper  
(g) Proper                        (h) Proper
3. (a) Unlike                    (b) Unlike                    (c) Like                    (d) Like  
(e) Unlike                      (f) Unlike
4. (a)  $2\frac{1}{4}$                     (b)  $4\frac{1}{2}$                     (c)  $1\frac{1}{2}$   
(d)  $2\frac{5}{7}$                     (e)  $3\frac{4}{11}$                     (f)  $2\frac{2}{3}$

5. (a)  $\frac{11}{5}$       (b)  $\frac{22}{7}$       (f)  $\frac{18}{5}$

(d)  $\frac{21}{5}$       (e)  $\frac{17}{6}$       (f)  $\frac{16}{5}$

(g)  $\frac{14}{5}$       (h)  $\frac{16}{5}$       (i)  $\frac{22}{9}$

(j)  $\frac{65}{9}$       (k)  $\frac{23}{8}$       (l)  $\frac{20}{11}$

6. (a)  $\frac{22}{4}$       (b)  $\frac{13}{33}$       (f)  $\frac{100}{51}$

(d)  $\frac{71}{72}$       (e)  $\frac{9}{8}$       (f)  $\frac{121}{24}$

7. (a)  $2 \div 7$       (b)  $5 \div 8$       (c)  $7 \div 4$       (d)  $5 \div 3$   
(e)  $11 \div 2$       (f)  $18 \div 13$

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1. (a)  $\frac{1}{4} + \frac{1}{4} = \frac{1+1}{4} = \frac{2}{4} = \frac{1}{2}$

(b)  $\frac{1}{2} + \frac{6}{2} = \frac{1+6}{2} = \frac{7}{2}$

(c)  $\frac{2}{5} + \frac{1}{5} = \frac{2+1}{5} = \frac{3}{5}$

(d)  $\frac{1}{26} + \frac{11}{26} = \frac{1+11}{26} = \frac{12}{26} = \frac{6}{13}$

(e)  $\frac{1}{10} + \frac{1}{10} = \frac{1+1}{10} = \frac{2}{10} = \frac{1}{5}$

(f)  $\frac{4}{6} + \frac{2}{6} = \frac{4+2}{6} = \frac{6}{6} = 1$

(g)  $\frac{5}{28} + \frac{7}{28} = \frac{5+7}{28} = \frac{12}{28} = \frac{3}{7}$

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(h)  $\frac{3}{10} + \frac{7}{10} = \frac{3+7}{10} = \frac{10}{10} = 1$

(i)  $\frac{2}{9} + \frac{4}{9} = \frac{2+4}{9} = \frac{6}{9} = \frac{2}{3}$

(j)  $\frac{10}{27} + \frac{12}{27} = \frac{10+12}{27} = \frac{22}{27}$

$$(k) \frac{7}{15} + \frac{8}{15} = \frac{7+8}{15} = \frac{15}{15} = 1$$

$$(l) \frac{9}{16} + \frac{9}{16} = \frac{9+9}{16} = \frac{18}{16} = \frac{9}{8}$$

$$(m) \frac{6}{66} + \frac{4}{66} = \frac{6+4}{66} = \frac{10}{66} = \frac{5}{33}$$

$$(n) \frac{1}{15} + \frac{14}{15} + \frac{5}{15} = \frac{1+14+5}{15} = \frac{20}{15} = 1\frac{1}{3}$$

$$(o) \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{1+1+1}{3} = \frac{3}{3} = 1$$

$$(p) \frac{2}{7} + \frac{1}{7} + \frac{3}{7} = \frac{2+1+3}{7} = \frac{6}{7}$$

$$2. (a) \frac{2}{5} + \frac{3}{5} = \frac{2+3}{5} = \frac{5}{5} = 1$$

$$(b) \frac{8}{11} + \frac{2}{11} = \frac{8+2}{11} = \frac{10}{11}$$

$$(c) \frac{5}{6} + \frac{3}{6} = \frac{5+3}{6} = \frac{8}{6} = \frac{4}{3} = 1\frac{1}{3}$$

$$(d) \frac{5}{13} + \frac{12}{13} + \frac{7}{13} = \frac{5+12+7}{13} = \frac{24}{13}$$

$$(e) \frac{12}{13} + \frac{15}{17} = \frac{204+195}{221} = \frac{399}{221}$$

$$(f) \frac{14}{12} + \frac{17}{12} + \frac{11}{12} = \frac{42}{12} = \frac{7}{2}$$

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**Subtract the following :**

$$1. (a) \frac{15}{23} - \frac{7}{23} = \frac{15-7}{23} = \frac{8}{23}$$

$$(b) \frac{9}{16} - \frac{3}{16} = \frac{9-3}{16} = \frac{\cancel{6}^3}{\cancel{16}^8} = \frac{3}{8}$$

$$(c) \frac{13}{27} - \frac{11}{27} = \frac{13-11}{27} = \frac{2}{27}$$

$$(d) \frac{23}{27} - \frac{20}{27} = \frac{23-20}{27} = \frac{\cancel{3}^1}{\cancel{27}^9} = \frac{1}{9}$$

$$(e) \frac{6}{41} - \frac{3}{41} = \frac{6-3}{41} = \frac{3}{41}$$

$$(f) \frac{12}{19} - \frac{11}{19} = \frac{12 - 11}{19} = \frac{1}{19}$$

$$(g) \frac{5}{10} - \frac{3}{10} = \frac{5 - 3}{10} = \frac{2}{10} = \frac{1}{5}$$

$$(h) \frac{19}{26} - \frac{15}{26} = \frac{19 - 15}{26} = \frac{4}{26}$$

$$(i) \frac{23}{25} - \frac{11}{25} = \frac{23 - 11}{25} = \frac{12}{25}$$

$$(j) \frac{27}{29} - \frac{13}{29} = \frac{27 - 13}{29} = \frac{14}{39}$$

$$(k) \frac{9}{17} - \frac{2}{17} = \frac{9 - 2}{17} = \frac{7}{17}$$

$$(l) \frac{17}{18} - \frac{6}{8} = \frac{17 - 6}{18} = \frac{11}{18}$$

**2.** (a)  $\frac{5}{9} - \frac{2}{9} = \frac{5 - 2}{9} = \frac{3}{9} = \frac{1}{3}$

(b)  $\frac{7}{11} - \frac{2}{11} = \frac{7 - 2}{11} = \frac{5}{11}$

(c)  $\frac{13}{19} - \frac{8}{19} = \frac{13 - 8}{19} = \frac{5}{19}$

(d)  $\frac{23}{27} - \frac{20}{27} = \frac{23 - 20}{27} = \frac{3}{27}$

(e)  $\frac{13}{5} - \frac{10}{5} = \frac{13 - 10}{5} = \frac{3}{5}$

(f)  $\frac{14}{19} - \frac{8}{19} = \frac{14 - 8}{19} = \frac{6}{19}$

**3.** (a)  $\frac{1}{3}$       (b)  $\frac{3}{5}$       (c)  $\frac{1}{12}$       (a)  $\frac{2}{8}$

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1. Quantity of oil in container A =  $\frac{1}{5}$

Quantity of oil in container B =  $\frac{2}{5}$

Total quantity =  $\frac{1}{5} + \frac{2}{5} = \frac{1+2}{5} = \frac{3}{5} l$

2. Quantity of apples	$= \frac{1}{5} \text{ kg}$
Quantity of oranges	$= \frac{2}{5} \text{ kg}$
Total weight of fruits	$= \frac{1}{5} \text{ kg} + \frac{2}{5} \text{ kg}$
	$= \frac{1+2}{5} = \frac{3}{5} \text{ kg}$
3. Total weight of vegetables	$= \frac{11}{12} \text{ kg}$
Weight of vegetables used	$= \frac{5}{12} \text{ kg}$
Weight of remaining vegetables	$= \frac{11}{12} - \frac{5}{12}$
	$= \frac{11-5}{12} = \frac{6}{12} \text{ kg}$

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4. Height of Ashi	$= \frac{6}{7} \text{ m}$
Height of Alina	$= \frac{5}{7} \text{ m}$
Difference in height	$= \frac{6}{7} \text{ m} - \frac{5}{7} \text{ m} = \frac{6-5}{7} = \frac{1}{7} \text{ m}$

Hence, Ashi is taller than Alina.

5. Total length of cloth	$= \frac{8}{9} \text{ m}$
Length of cloth used	$= \frac{4}{9} \text{ m}$
Length of cloth left	$= \frac{8}{9} \text{ m} - \frac{4}{9} \text{ m} = \frac{(8-4)}{9} \text{ m}$
	$= \frac{4}{9} \text{ m}$
6. Weight of wheat sold	$= \frac{5}{18} \text{ kg}$
Weight of rice sold	$= \frac{7}{18} \text{ kg}$

$$\text{Weight of maize sold} = \frac{2}{18} \text{ kg}$$

$$\begin{aligned}\text{Total weight of grains sold} &= \frac{5}{18} + \frac{7}{18} + \frac{2}{18} \\ &= \frac{5+7+2}{18} = \frac{14}{18} \text{ kg}\end{aligned}$$

$$7. \text{ Total money spent} = \frac{5}{13} + \frac{4}{13} + \frac{2}{13}$$

$$\text{Weight of rice sold} = \frac{5+4+2}{13} = \frac{11}{13}$$

8. Let the total chocolate be 1

$$\text{Chocolate bar eaten} = \frac{1}{4}$$

$$\text{Chocolate bar left} = 1 - \frac{1}{4} = \frac{4-1}{4} = \frac{3}{4}$$

$$9. \text{ Total capacity of both tins} = \frac{3}{9} \text{ l} + \frac{5}{9} \text{ l}$$

$$= \frac{(3+5) \text{ l}}{9} = \frac{8}{9} \text{ l}$$

10. Let the total vegetables be 1

$$\begin{aligned}\text{Weight of tomato, onion \& green chillies} &= \frac{1}{5} + \frac{2}{5} + \frac{1}{5} \text{ kg} \\ &= \frac{1+2+1}{5} \text{ kg} = \frac{4}{5} \text{ kg}\end{aligned}$$

$$\begin{aligned}\text{Weight of lemons} &= 1 - \frac{4}{5} \text{ kg} \\ &= \frac{5 \times 4}{5} \text{ kg} = \frac{1}{5} \text{ kg}\end{aligned}$$

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### MODEL TEST PAPER - II

- |             |            |            |
|-------------|------------|------------|
| 1. (a) 8700 | (b) 37100  | (c) 37000  |
| (d) 19800   | (e) 55500  | (f) 42700  |
| (g) 8900    | (h) 156000 | (i) 575000 |
| (j) 25400   |            |            |

### **3. Do it yourself.**



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

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$$8. \text{ (a)} \quad \frac{5}{9} - \frac{2}{9} = \frac{5-2}{9} = \frac{3}{9} = \frac{1}{3}$$

$$(b) \frac{7}{11} - \frac{2}{11} = \frac{7-2}{11} = \frac{5}{11}$$

$$(c) \frac{13}{19} - \frac{8}{19} = \frac{13 - 11}{27} = \frac{2}{27}$$

$$(d) \frac{23}{27} - \frac{20}{27} = \frac{13 - 8}{19} = \frac{2}{23}$$

$$(e) \frac{13}{5} - \frac{10}{5} = \frac{13 - 10}{5} = \frac{3}{5}$$

$$(f) \quad \frac{14}{19} - \frac{8}{19} = \frac{14-8}{19} = \frac{6}{19}$$

- 9.** (a)  $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$       (b)  $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$   
 (c)  $\frac{5}{12} - \frac{4}{12} = \frac{1}{12}$       (d)  $\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$
- 10.** (a) Unlike fractions      (b) Unlike fractions  
 (c) Like fractions      (d) Like fractions  
 (e) Unlike fractions      (f) Unlike fractions

## Chapter : 10

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- 1.** (a) 0.1      (b) 0.05      (c) 0.026      (d) 0.14  
 (e) 0.057      (f) 0.225      (g) 0.016      (h) 8.129  
 (i) 4.106      (j) 0.91      (k) 32.516      (l) 0.26
- 2.** (a)  $\frac{7}{100}$       (b)  $\frac{5}{10}$       (c)  $\frac{248}{10}$       (d)  $\frac{5712}{100}$   
 (e)  $\frac{109124}{1000}$       (f)  $\frac{322175}{1000}$       (g)  $\frac{42256}{1000}$       (h)  $\frac{219473}{1000}$   
 (i)  $\frac{63153}{1000}$       (j)  $\frac{42505}{100}$
- 3.** (a) Six point one  
 (b) Forty two point two five  
 (c) One hundred forty one point zero two  
 (d) One hundred seventy five point one  
 (e) One hundred forty five point two four  
 (f) Three hundred twenty two point one seven five  
 (g) Forty two point two five six  
 (h) One hundred twenty nine point four seven three  
 (i) Sixty three point one five three  
 (j) Four hundred twenty five point zero five

- 4.** (a) 0.26      (b) 0.06      (c) 0.753      (d) 0.55  
 (e) 72.218      (f) 297.008      (g) 1100.301      (h) 683.48

Decimal Number	Hundreds	Tens	Ones	Decimal	Tenths	Hundredths	Thousandsths
0.78				.	7	8	
4.245			4	.	2	4	5
31.207		3	1	.	2	0	7
0.002				.	0	0	2
154.34	1	5	4	.	3	4	
78.135		7	8	.	1	3	5

5. (a)  $1 + \frac{8}{10} + \frac{6}{100}$       (b)  $4 + \frac{4}{10} + \frac{1}{100}$   
 (c)  $0 + \frac{8}{10} + \frac{7}{100} + \frac{6}{1000}$       (d)  $100 + 30 + 1 + \frac{3}{10} + \frac{7}{100}$   
 (e)  $50 + 6 + \frac{2}{10} + \frac{4}{100}$       (f)  $9 + \frac{4}{10} + \frac{7}{100}$   
 (g)  $2000 + 0 + 0 + 0 + \frac{1}{1000}$       (h)  $1 + \frac{3}{10} + \frac{4}{100} + \frac{5}{1000}$   
 (i)  $7 + \frac{3}{10} + \frac{1}{100} + \frac{4}{1000}$   
 (j)  $400 + 20 + 4 + \frac{1}{10} + \frac{2}{100} + \frac{4}{1000}$   
 (k)  $100 + 50 + 6 + \frac{2}{10}$       (l)  $30 + 4 + \frac{1}{10} + \frac{3}{100}$

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7. (a) 78.34      (b) 0.5555      (c) 757.456  
 (d) 50.709      (e) 1051.005      (f) 67.012

### Page – 99

1. (a) Not equivalent      (b) Equivalent  
 (c) Not equivalent      (d) Not equivalent  
 (e) Not equivalent      (f) Equivalent  
 2. (a)  $>$       (b)  $<$       (c)  $>$   
 (d)  $>$       (e)  $<$       (f)  $>$   
 3. (a) 0.09, 0.1, 0.2, 0.5, 0.7  
 (b) 0.134, 0.83, 3.412, 17.834

- (c) 3.0, 3.3, 3.33, 3.3333  
(d) 0.1509, 3.7, 3.75, 7.6453, 9.1

4. (a) 7.8, 3.8, 0.5, 0.2  
(b) 0.471, 0.461, 0.46, 0.406  
(c) 7.777, 6.874, 0.434, 0.139  
(d) 7.5, 1.45, 0.54, 0.45

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Chapter : 11

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1. (a)  $7 \text{ cm} = (7 \times 10) \text{ mm} = \mathbf{70 \text{ mm}}$   
(b)  $21 \text{ cm} = (21 \times 10) \text{ mm} = \mathbf{210 \text{ mm}}$   
(c)  $5 \text{ cm} = (5 \times 1000) \text{ mm} = \mathbf{5000 \text{ mm}}$   
(d)  $10 \text{ cm} = (10 \times 1000) \text{ mm} = \mathbf{10000 \text{ mm}}$

2. (a)  $3 \text{ cm } 9 \text{ mm} = (3 \times 10) + 9 \text{ mm} = 30 \text{ mm} + 9 \text{ mm} = 39 \text{ mm}$   
(b)  $14 \text{ cm } 6 \text{ mm} = (14 \times 10) \text{ mm} + 6 \text{ mm} = 140 \text{ mm} + 6 \text{ mm}$   
 $= \mathbf{146 \text{ mm}}$   
(c)  $5 \text{ cm } 39 \text{ mm} = (5 \times 1000) \text{ mm} + (39 \times 10) \text{ mm}$   
 $= 5000 \text{ mm} + 390 \text{ mm}$   
 $= \mathbf{5390 \text{ mm}}$   
(d)  $15 \text{ cm } 5 \text{ mm} = (15 \times 1000) \text{ mm} + (5 \times 10) \text{ mm}$   
 $= 15000 \text{ mm} + 50 \text{ mm}$   
 $= \mathbf{15050 \text{ mm}}$

- 3.** (a)  $5000 \text{ g} = (5000 \div 1000) \text{ kg} = 5 \text{ kg}$   
 (b)  $14000 \text{ g} = (14000 \div 1000) \text{ kg} = 14 \text{ kg}$   
 (c)  $7250 \text{ g} = (7000 \div 1000) \text{ kg} + 250 \text{ g} = 7 \text{ kg } 250 \text{ g}$   
 (d)  $13178 \text{ g} = (13000 \div 1000) \text{ kg} + 178 \text{ g} = 13 \text{ kg } 178 \text{ g}$
- 4.** (a)  $9 \text{ l} = (9 \times 1000) \text{ ml} = 9000 \text{ ml}$   
 (b)  $45\text{l} = (45 \times 1000) \text{ ml} = 45000 \text{ ml}$   
 (c)  $1\text{l } 16 \text{ ml} = (1 \times 1000) \text{ ml} + 16 \text{ ml} = 1000 \text{ ml} + 16 \text{ ml} = 1016 \text{ ml}$   
 (d)  $8 \text{ l } 326 \text{ ml} = (8 \times 1000) \text{ ml} + 325 \text{ ml}$   
 $\quad\quad\quad = 8000 \text{ ml} + 325 \text{ ml}$   
 $\quad\quad\quad = 8325 \text{ ml}$
- 5.** (a)  $95 \text{ mm} = 95 \text{ mm} \div 10 = (90 \div 10) \text{ cm } 5 \text{ mm} = 9 \text{ cm } 5 \text{ mm}$   
 (b)  $344\text{mm} = (340 \text{ mm} \div 10) \text{ cm} + 4 \text{ mm} + 34 \text{ cm } 4 \text{ mm}$   
 (c)  $9 \text{ m } 62 \text{ cm} = (9 \text{ mm} \times 100) \text{ cm} + 62 \text{ cm} = 900 \text{ cm} + 62 \text{ cm}$   
 $\quad\quad\quad = 962\text{m}$   
 (d)  $9703 \text{ m} = (9000 \div 1000) \text{ km} + 703 \text{ m}$   
 $\quad\quad\quad = 9 \text{ km } 703 \text{ m}$   
 (e)  $5009 \text{ cm} = (5000 \div 100) \text{ m} + 9 \text{ m}$   
 $\quad\quad\quad = 50 \text{ m } 9 \text{ cm}$   
 (f)  $7065 \text{ m} = (7000 \div 1000) \text{ km} + 65 \text{ m}$   
 $\quad\quad\quad = 7 \text{ km } 65 \text{ m}$
- 6.** (a)  $10 \text{ kg } 55\text{g} = (10 \times 1000) \text{ g} + 55 \text{ g} = 10000 \text{ g} + 55 \text{ g}$   
 $\quad\quad\quad = 10055 \text{ g}$   
 (b)  $12125 \text{ g} = (12000 \times 1000) \text{ kg} + 125 \text{ g}$   
 $\quad\quad\quad = 12 \text{ kg } 125 \text{ g}$   
 (c)  $8045 \text{ g} = (8000 \times 1000) \text{ kg} + 45 \text{ g}$   
 $\quad\quad\quad = 8 \text{ kg } 45 \text{ g}$
- 7.** (a)  $5 \text{ l } 75 \text{ ml} = (5 \times 1000) \text{ ml} + 75 \text{ ml}$   
 $\quad\quad\quad = 5000 \text{ ml} + 75 \text{ ml} = 5075 \text{ ml}$   
 (b)  $2060 \text{ ml} = (2000 \times 1000) \text{ kg} + 60 \text{ ml}$   
 $\quad\quad\quad = 2 \text{ l } 60 \text{ ml}$   
 (c)  $5425 \text{ ml} = (5000 \times 1000) + 425 \text{ ml}$   
 $\quad\quad\quad = 5 \text{ l } 425 \text{ g}$

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|--|-------|------|-------|-------------|---|-------|------|--------|-------------|--|------|-------|---------|---------------|
| <p><b>1.</b> (a)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">cm mm</td> </tr> <tr> <td style="padding: 5px;">10 6</td> </tr> <tr> <td style="padding: 5px;">+ 4 2</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>14 8</b></td> </tr> </table> | cm mm | 10 6 | + 4 2 | <b>14 8</b> | <p>(b)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">cm mm</td> </tr> <tr> <td style="padding: 5px;">27 5</td> </tr> <tr> <td style="padding: 5px;">+ 12 4</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>39 9</b></td> </tr> </table> | cm mm | 27 5 | + 12 4 | <b>39 9</b> | <p>(c)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">m cm</td> </tr> <tr> <td style="padding: 5px;">63 55</td> </tr> <tr> <td style="padding: 5px;">+ 56 24</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>119 79</b></td> </tr> </table> | m cm | 63 55 | + 56 24 | <b>119 79</b> |
| cm mm  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| 10 6   |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| + 4 2  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| <b>14 8</b>  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| cm mm  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| 27 5   |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| + 12 4   |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| <b>39 9</b>  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| m cm   |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| 63 55  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| + 56 24  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
| <b>119 79</b>  |       |      |       |             |   |       |      |        |             |  |      |       |         |               |
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|---|------|--------|----------|----------------|--|------|---------|----------|----------------|--|------|--------|----------|---------------|
| <p>(d)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">km m</td> </tr> <tr> <td style="padding: 5px;">30 508</td> </tr> <tr> <td style="padding: 5px;">+ 75 607</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>106 115</b></td> </tr> </table> | km m | 30 508 | + 75 607 | <b>106 115</b> | <p>(e)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">km m</td> </tr> <tr> <td style="padding: 5px;">220 360</td> </tr> <tr> <td style="padding: 5px;">+ 25 875</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>246 235</b></td> </tr> </table> | km m | 220 360 | + 25 875 | <b>246 235</b> | <p>(f)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">m cm</td> </tr> <tr> <td style="padding: 5px;">127 97</td> </tr> <tr> <td style="padding: 5px;">+ 707 19</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>835 14</b></td> </tr> </table> | m cm | 127 97 | + 707 19 | <b>835 14</b> |
| km m  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| 30 508  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| + 75 607  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| <b>106 115</b>  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| km m  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| 220 360   |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| + 25 875  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| <b>246 235</b>  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| m cm  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| 127 97  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| + 707 19  |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
| <b>835 14</b>   |      |        |          |                |  |      |         |          |                |  |      |        |          |               |
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|---|------|-------|----------|---------------|---|------|-------|-----------|----------------|---|------|--------|---------|---------------|
| <p>(g)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">kg g</td> </tr> <tr> <td style="padding: 5px;">6 750</td> </tr> <tr> <td style="padding: 5px;">+ 17 410</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>24 160</b></td> </tr> </table> | kg g | 6 750 | + 17 410 | <b>24 160</b> | <p>(h)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">kg g</td> </tr> <tr> <td style="padding: 5px;">42 97</td> </tr> <tr> <td style="padding: 5px;">+ 117 950</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>160 035</b></td> </tr> </table> | kg g | 42 97 | + 117 950 | <b>160 035</b> | <p>(i)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">l ml</td> </tr> <tr> <td style="padding: 5px;">15 400</td> </tr> <tr> <td style="padding: 5px;">+ 9 720</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>25 120</b></td> </tr> </table> | l ml | 15 400 | + 9 720 | <b>25 120</b> |
| kg g  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| 6 750   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| + 17 410  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| <b>24 160</b>   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| kg g  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| 42 97   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| + 117 950   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| <b>160 035</b>  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| l ml  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| 15 400  |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| + 9 720   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
| <b>25 120</b>   |      |       |          |               |   |      |       |           |                |   |      |        |         |               |
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|---|------|--------|----------|----------------|
| <p>(j)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">l ml</td> </tr> <tr> <td style="padding: 5px;">69 275</td> </tr> <tr> <td style="padding: 5px;">+ 30 800</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>100 075</b></td> </tr> </table> | l ml | 69 275 | + 30 800 | <b>100 075</b> |
| l ml  |      |        |          |                |
| 69 275  |      |        |          |                |
| + 30 800  |      |        |          |                |
| <b>100 075</b>  |      |        |          |                |
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|---|-------|-----|------|--------|-------------|--|------|-------|-------|--------|--------------|--|------|--------|-------|----------|---------------|
| <p><b>2.</b> (a)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">cm mm</td> </tr> <tr> <td style="padding: 5px;">2 7</td> </tr> <tr> <td style="padding: 5px;">63 8</td> </tr> <tr> <td style="padding: 5px;">+ 25 4</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>91 9</b></td> </tr> </table> | cm mm | 2 7 | 63 8 | + 25 4 | <b>91 9</b> | <p>(b)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">m cm</td> </tr> <tr> <td style="padding: 5px;">54 85</td> </tr> <tr> <td style="padding: 5px;">12 10</td> </tr> <tr> <td style="padding: 5px;">+ 9 25</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>76 20</b></td> </tr> </table> | m cm | 54 85 | 12 10 | + 9 25 | <b>76 20</b> | <p>(c)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">km m</td> </tr> <tr> <td style="padding: 5px;">12 400</td> </tr> <tr> <td style="padding: 5px;">5 507</td> </tr> <tr> <td style="padding: 5px;">+ 10 095</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>28 002</b></td> </tr> </table> | km m | 12 400 | 5 507 | + 10 095 | <b>28 002</b> |
| cm mm   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 2 7   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 63 8  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| + 25 4  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| <b>91 9</b>   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| m cm  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 54 85   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 12 10   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| + 9 25  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| <b>76 20</b>  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| km m  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 12 400  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| 5 507   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| + 10 095  |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
| <b>28 002</b>   |       |     |      |        |             |  |      |       |       |        |              |  |      |        |       |          |               |
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|--|------|---------|-------|----------|----------------|---|------|-------|--------|----------|----------------|
| <p>(d)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">kg g</td> </tr> <tr> <td style="padding: 5px;">120 800</td> </tr> <tr> <td style="padding: 5px;">35 85</td> </tr> <tr> <td style="padding: 5px;">+ 11 220</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>167 105</b></td> </tr> </table> | kg g | 120 800 | 35 85 | + 11 220 | <b>167 105</b> | <p>(e)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">l ml</td> </tr> <tr> <td style="padding: 5px;">9 365</td> </tr> <tr> <td style="padding: 5px;">48 700</td> </tr> <tr> <td style="padding: 5px;">+ 106 50</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>164 115</b></td> </tr> </table> | l ml | 9 365 | 48 700 | + 106 50 | <b>164 115</b> |
| kg g   |      |         |       |          |                |   |      |       |        |          |                |
| 120 800  |      |         |       |          |                |   |      |       |        |          |                |
| 35 85  |      |         |       |          |                |   |      |       |        |          |                |
| + 11 220   |      |         |       |          |                |   |      |       |        |          |                |
| <b>167 105</b>   |      |         |       |          |                |   |      |       |        |          |                |
| l ml   |      |         |       |          |                |   |      |       |        |          |                |
| 9 365  |      |         |       |          |                |   |      |       |        |          |                |
| 48 700   |      |         |       |          |                |   |      |       |        |          |                |
| + 106 50   |      |         |       |          |                |   |      |       |        |          |                |
| <b>164 115</b>   |      |         |       |          |                |   |      |       |        |          |                |
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|---|-------|-----|------|--------|-------------|---|------|-------|-------|---------|--------------|---|------|--------|-------|----------|----------------|
| <p><b>3.</b> (a)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">cm mm</td> </tr> <tr> <td style="padding: 5px;">1 6</td> </tr> <tr> <td style="padding: 5px;">12 4</td> </tr> <tr> <td style="padding: 5px;">+ 20 3</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>34 3</b></td> </tr> </table> | cm mm | 1 6 | 12 4 | + 20 3 | <b>34 3</b> | <p>(b)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">m cm</td> </tr> <tr> <td style="padding: 5px;">15 85</td> </tr> <tr> <td style="padding: 5px;">26 38</td> </tr> <tr> <td style="padding: 5px;">+ 35 90</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>78 13</b></td> </tr> </table> | m cm | 15 85 | 26 38 | + 35 90 | <b>78 13</b> | <p>(c)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">m cm</td> </tr> <tr> <td style="padding: 5px;">250 40</td> </tr> <tr> <td style="padding: 5px;">00 75</td> </tr> <tr> <td style="padding: 5px;">+ 810 29</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>1061 44</b></td> </tr> </table> | m cm | 250 40 | 00 75 | + 810 29 | <b>1061 44</b> |
| cm mm   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 1 6   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 12 4  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| + 20 3  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| <b>34 3</b>   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| m cm  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 15 85   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 26 38   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| + 35 90   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| <b>78 13</b>  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| m cm  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 250 40  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| 00 75   |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| + 810 29  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
| <b>1061 44</b>  |       |     |      |        |             |   |      |       |       |         |              |   |      |        |       |          |                |
- 
- |  |      |       |        |          |               |
|--|------|-------|--------|----------|---------------|
| <p>(d)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">km m</td> </tr> <tr> <td style="padding: 5px;">5 400</td> </tr> <tr> <td style="padding: 5px;">16 210</td> </tr> <tr> <td style="padding: 5px;">+ 25 608</td> </tr> <tr> <td style="padding: 5px; background-color: #ffffcc;"><b>47 218</b></td> </tr> </table> | km m | 5 400 | 16 210 | + 25 608 | <b>47 218</b> |
| km m   |      |       |        |          |               |
| 5 400  |      |       |        |          |               |
| 16 210   |      |       |        |          |               |
| + 25 608   |      |       |        |          |               |
| <b>47 218</b>  |      |       |        |          |               |

4. (a)

<i>kg</i>	<i>g</i>
7	750
0	600
+ 5	185
<b>13 535</b>	

(b)

<i>kg</i>	<i>g</i>
35	527
2	028
+ 13	110
<b>50 665</b>	

(c)

<i>l</i>	<i>ml</i>
1	025
0	975
+ 15	400
<b>17 400</b>	

(d)

<i>l</i>	<i>ml</i>
0	250
4	708
+ 15	095
<b>20 053</b>	

5. (a)

<i>m</i>	<i>cm</i>
425	50
350	25
585	75
+ 200	00
<b>1561 50</b>	

(b)

<i>kg</i>	<i>g</i>
5	300
18	560
270	420
+ 000	950
<b>295 230</b>	

1. (a)

<i>cm</i>	<i>mm</i>
9	0
- 5	5
<b>3 5</b>	

(b)

<i>cm</i>	<i>mm</i>
31	4
- 2	4
<b>29 0</b>	

(c)

<i>m</i>	<i>cm</i>
15	25
- 7	95
<b>7 30</b>	

(d)

<i>m</i>	<i>cm</i>
38	17
- 10	49
<b>27 68</b>	

(e)

<i>cm</i>	<i>mm</i>
149	450
- 65	700
<b>83 750</b>	

(f)

<i>km</i>	<i>m</i>
78	100
- 8	279
<b>70 821</b>	

(g)

<i>kg</i>	<i>g</i>
41	050
- 3	165
<b>37 885</b>	

(h)

<i>kg</i>	<i>g</i>
215	110
- 45	220
<b>169 890</b>	

(i)

<i>l</i>	<i>ml</i>
62	075
- 13	250
<b>48 825</b>	

(j)

<i>l</i>	<i>ml</i>
450	300
- 295	190
<b>155 110</b>	

2. (a)  $30 \text{ mm} - 8 \text{ mm} = 22 \text{ mm}$

(b)

<i>cm</i>	<i>mm</i>
10	2
-	3 5
<b>6</b>	<b>7</b>

(c)

<i>500</i>	<i>mm</i>
-	<i>76 cm</i>
<b>224</b>	<b>mm</b>

(d)

<i>m</i>	<i>cm</i>
11	22
-	8 49
<b>2</b>	<b>73</b>

(e)

<i>6000 m</i>
- <i>950 m</i>
<b>5050 m</b>

(f)

<i>km</i>	<i>m</i>
5	029
-	2 148
<b>2</b>	<b>881</b>

3. (a)

<i>kg</i>	<i>g</i>
12	050
-	8 650
<b>3</b>	<b>400</b>

(c)

<i>kg</i>	<i>g</i>
71	100
-	65 275
<b>5</b>	<b>825</b>

(d)

<i>l</i>	<i>ml</i>
20	500
-	15 875
<b>4</b>	<b>625</b>

(e)

<i>4000 ml</i>
- <i>400 ml</i>
<b>3600 ml</b>

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Multiply the following :

1. (a)

<i>cm</i>	<i>mm</i>
3	7
$\times$	4
<b>14</b>	<b>8</b>

(b)

<i>cm</i>	<i>mm</i>
17	5
$\times$	5
<b>87</b>	<b>5</b>

(c)

<i>m</i>	<i>cm</i>
7	58
$\times$	7
<b>53</b>	<b>06</b>

(d)

<i>m</i>	<i>cm</i>
88	92
$\times$	4
<b>355</b>	<b>68</b>

(e)

<i>km</i>	<i>m</i>
32	112
$\times$	9
<b>289</b>	<b>008</b>

(f)

<i>km</i>	<i>m</i>
212	705
$\times$	4
<b>850</b>	<b>820</b>

(g)

<i>kg</i>	<i>g</i>
26	235
$\times$	5
<b>131</b>	<b>175</b>

(h)

<i>kg</i>	<i>g</i>
82	365
$\times$	7
<b>576</b>	<b>555</b>

(i)

<i>l</i>	<i>ml</i>
7	620
$\times$	8
<b>60</b>	<b>960</b>

(j)

<i>l</i>	<i>ml</i>
12	825
$\times$	5
<b>64</b>	<b>125</b>

(a)	<table border="1"><tr><td><math>m</math></td><td><math>cm</math></td></tr><tr><td>14</td><td>4</td></tr><tr><td><math>\times</math></td><td>6</td></tr><tr><td colspan="2">86 4</td></tr></table>	$m$	$cm$	14	4	$\times$	6	86 4		(b)	<table border="1"><tr><td><math>cm</math></td><td><math>mm</math></td></tr><tr><td>8</td><td>6</td></tr><tr><td><math>\times</math></td><td>5</td></tr><tr><td colspan="2">43 0</td></tr></table>	$cm$	$mm$	8	6	$\times$	5	43 0		(c)	<table border="1"><tr><td><math>m</math></td><td><math>cm</math></td></tr><tr><td>14</td><td>20</td></tr><tr><td><math>\times</math></td><td>7</td></tr><tr><td colspan="2">99 40</td></tr></table>	$m$	$cm$	14	20	$\times$	7	99 40	
$m$	$cm$																												
14	4																												
$\times$	6																												
86 4																													
$cm$	$mm$																												
8	6																												
$\times$	5																												
43 0																													
$m$	$cm$																												
14	20																												
$\times$	7																												
99 40																													
(d)	<table border="1"><tr><td><math>m</math></td><td><math>cm</math></td></tr><tr><td>31</td><td>55</td></tr><tr><td><math>\times</math></td><td>6</td></tr><tr><td colspan="2">189 30</td></tr></table>	$m$	$cm$	31	55	$\times$	6	189 30		(e)	<table border="1"><tr><td><math>cm</math></td><td><math>mm</math></td></tr><tr><td>7</td><td>415</td></tr><tr><td><math>\times</math></td><td>4</td></tr><tr><td colspan="2">29 660</td></tr></table>	$cm$	$mm$	7	415	$\times$	4	29 660		(f)	<table border="1"><tr><td><math>km</math></td><td><math>m</math></td></tr><tr><td>37</td><td>150</td></tr><tr><td><math>\times</math></td><td>3</td></tr><tr><td colspan="2">111 450</td></tr></table>	$km$	$m$	37	150	$\times$	3	111 450	
$m$	$cm$																												
31	55																												
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189 30																													
$cm$	$mm$																												
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$km$	$m$																												
37	150																												
$\times$	3																												
111 450																													
(g)	<table border="1"><tr><td><math>kg</math></td><td><math>g</math></td></tr><tr><td>4</td><td>360</td></tr><tr><td><math>\times</math></td><td>9</td></tr><tr><td colspan="2">39 240</td></tr></table>	$kg$	$g$	4	360	$\times$	9	39 240		(h)	<table border="1"><tr><td><math>kg</math></td><td><math>g</math></td></tr><tr><td>65</td><td>725</td></tr><tr><td><math>\times</math></td><td>5</td></tr><tr><td colspan="2">328 625</td></tr></table>	$kg$	$g$	65	725	$\times$	5	328 625		(i)	<table border="1"><tr><td><math>km</math></td><td><math>m</math></td></tr><tr><td>6</td><td>835</td></tr><tr><td><math>\times</math></td><td>8</td></tr><tr><td colspan="2">54 680</td></tr></table>	$km$	$m$	6	835	$\times$	8	54 680	
$kg$	$g$																												
4	360																												
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$kg$	$g$																												
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328 625																													
$km$	$m$																												
6	835																												
$\times$	8																												
54 680																													
(j)	<table border="1"><tr><td><math>l</math></td><td><math>ml</math></td></tr><tr><td>53</td><td>475</td></tr><tr><td><math>\times</math></td><td>5</td></tr><tr><td colspan="2">267 375</td></tr></table>	$l$	$ml$	53	475	$\times$	5	267 375																					
$l$	$ml$																												
53	475																												
$\times$	5																												
267 375																													

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(a)  $272 \text{ cm } 7 \text{ mm} \div 9$

$$2727 \text{ mm} \div 9 = 303 \text{ mm} = 30 \text{ cm } 3 \text{ mm}$$

(b)  $907 \text{ cm } 5 \text{ mm} \div 15$

$$9075 \text{ mm} \div 15 = 605 \text{ mm} = 60 \text{ cm } 5 \text{ mm}$$

(c)  $345 \text{ m } 20 \text{ cm} \div 20$

$$34520 \text{ cm} \div 20 = 1726 \text{ cm} = 17 \text{ m } 26 \text{ cm}$$

(d)  $947 \text{ m } 65 \text{ cm} \div 11$

$$94765 \text{ cm} \div 11 = 8615 \text{ cm} = 86 \text{ m } 15 \text{ cm}$$

(e)  $593 \text{ km } 280 \text{ m} \div 16$

$$593280 \text{ m} \div 16 = 37080 \text{ m} = 37 \text{ km } 080 \text{ m}$$

(f)  $720 \text{ km } 640 \text{ m} \div 8$

$$720640 \text{ m} \div 8 = 90080 \text{ m} = 90 \text{ km } 080 \text{ m}$$

(g)  $5 \text{ kg } 400 \text{ g} \div 12$

$$5400 \text{ g} \div 12 = 450 \text{ g}$$

(h)  $656 \text{ kg } 500 \text{ g} \div 13$

$$656500 \text{ g} \div 13 = 50500 \text{ g} = 50 \text{ kg } 500 \text{ g}$$

(i)  $490 \text{ l } 560 \text{ ml} \div 7$

$$490560 \text{ ml} \div 7 = 70080 \text{ ml} = 70 \text{ l } 80 \text{ ml}$$

(j)  $3366 \text{ l } 300 \text{ ml} \div 21$

$$3366300 \text{ ml} \div 21 = 160300 \text{ ml} = 160 \text{l } 300 \text{ ml}$$

1. Space occupied by I<sup>st</sup> dictionary = 

cm	mm
4	4
7	2
+	5
<b>17 1</b>	
- Space occupied by II<sup>st</sup> dictionary =
- Space occupied by III<sup>st</sup> dictionary =
- Height of bookshelf = 40 cm  
Spce left =  $40 \text{ cm} - 17 \text{ cm } 1 \text{ mm} = 22 \text{ cm } 9 \text{ mm}$
2. Cloth used to make 2 shirts =  $2 \text{ m } 40 \text{ cm} +$   
 $2 \text{ m } 60 \text{ cm} = 5 \text{ m}$   
Length of cloth with tailor =  $15 \text{ m}$   
Length of cloth left =  $15 \text{ m} - 5 \text{ m} = 10 \text{ m}$
3. Height of the room = 

m	mm
3	50
-	1
<b>2 40</b>	
- Length of wire & bulb =
- Height required =
- Ans =  $2 \text{ m } 40 \text{ m}$
4. Cost of an erasers =  $7 \text{ mm}$   
No. of erasers = 13  
Height of erasers =  $7 \text{ mm} \times 13$   
=  $91 \text{ mm}$
5. Length of the bracelet =  $2 \text{ cm } 6 \text{ mm} \times 5$   
=  $13 \text{ cm}$
6. Juhi will reach at 12 o' clock.  
Lavanya will reach at 11 o' clock.  
Ans = 12 o'clock; 11 o'clock

7. Total length of cloth used =  $12\text{ m }50\text{ cm} \times 5$   
 $= 62\text{ m }50\text{ cm}$

## Chapter : 12

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1. (a) 11 : 15      (b) 8 : 05      (c) 4 : 25  
 (d) 6 : 50      (e) 10 : 30      (f) 1 : 40
2. (a)      (b)      (c)



3. (a) May      (b) Monday      (c) 31      (d) Wednesday

**Write the time shown in the clocks. One is done for you :**

1. (a) 10 : 23      (b) 2 : 35      (c) 4 : 58  
 (d) 4 : 37      (e) 1 : 51      (f) 10 : 03
2. (a)      (b)      (c)



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- (d)      (e)      (f)



3. (a) 8 : 28

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1. (a) 4 : 25 p.m      (b) 8 : 00 a.m      (c) 9 : 50 a.m  
 (d) 5 : 45 a.m      (e) 10 : 30 a.m      (f) 7 : 45 p.m
2. (a) (iv)      (b) (v)      (c) (ii)  
 (d) (iii)      (e) (i)

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- 1.** (a) 1420 hours      (b) 0219 hours      (c) 1115 hours  
(d) 1545 hours      (e) 0545 hours      (f) 1905 hours  
(g) 1055 hours      (h) 2050 hours

**2.** (a) 11 : 00 a.m      (b) 1 : 20 p.m      (c) 4 : 18 p.m  
(d) 4 : 35 p.m      (e) 5 : 40 p.m      (f) 7 : 45 p.m  
(g) 8 : 10 p.m      (h) 9 : 40 p.m

**3.** (a) 8 : 00 a.m, 0800 hours      (b) 10 : 25 a.m, 1025 hours  
(c) 9 : 00 p.m, 2100 hours      (d) 3 : 20, p.m 1520 hours

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1. (a)  $4 \text{ hours} = (4 \times 60) \text{ minutes} = \mathbf{240 \text{ minutes}}$

(b)  $2 \frac{1}{2} \text{ hours} = (2.5 \times 60) \text{ minutes} = \mathbf{150 \text{ minutes}}$

(c)  $2 \text{ hours } 20 \text{ minutes} = (2 \times 60) \text{ min} + 20 \text{ min}$   
 $= 120 \text{ min} + 20 \text{ min}$   
 $= \mathbf{140 \text{ minutes}}$

(d)  $3 \text{ hours } 45 \text{ minutes} = (3 \times 60) \text{ min} + 45 \text{ min}$   
 $= 180 \text{ min} + 45 \text{ min}$   
 $= \mathbf{225 \text{ minutes}}$

(e)  $8 \text{ hours} = (8 \times 60) \text{ min} = \mathbf{480 \text{ minutes}}$

(f)  $5 \text{ hours } 15 \text{ minutes} = (5 \times 60) \text{ min} + 15 \text{ min}$   
 $= 300 \text{ min} + 15 \text{ min}$   
 $= \mathbf{315 \text{ minutes}}$

$$\begin{array}{r} 160 \\ \overline{)60\phantom{0}} \\ 120 \\ \hline 40 \end{array}$$

**2 hours 40 minutes**

$$\begin{array}{r} \overline{)250 \quad (4} \\ 240 \\ \hline 10 \end{array}$$

4 hours 10 minutes

(c) 180 min

$$\begin{array}{r} 60 ) 180 \text{ (3} \\ \underline{-180} \\ \underline{0} \end{array}$$

**3 hours**

(e) 1050 min

$$\begin{array}{r} 60 ) 1050 \text{ (17} \\ \underline{-60} \\ \underline{450} \\ \underline{420} \\ \underline{30} \end{array}$$

**17 hours 30 minutes**

(d) 540 min

$$\begin{array}{r} 60 ) 540 \text{ (9} \\ \underline{-540} \\ \underline{0} \end{array}$$

**9 hours**

(f) 1260 min

$$\begin{array}{r} 60 ) 1260 \text{ (21} \\ \underline{-120} \\ \underline{60} \\ \underline{60} \\ \underline{0} \end{array}$$

**21 hours**

(g) 780 min

$$\begin{array}{r} 60 ) 780 \text{ min (13} \\ \underline{-60} \\ \underline{180} \\ \underline{180} \\ \underline{0} \end{array}$$

**13 hours**

(h) 2100 min

$$\begin{array}{r} 60 ) 2100 \text{ min (35} \\ \underline{-180} \\ \underline{300} \\ \underline{300} \\ \underline{0} \end{array}$$

**35 hours**

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1. (a)

hr	min
2	20
+ 6	40
<b>9 00</b>	

(b)

hr	min
3	15
+ 4	30
<b>7 45</b>	

(c)

hr	min
7	40
+10	25
<b>18 05</b>	

(d)

hr	min
12	45
+15	35
<b>28 20</b>	

(e)

hr	min
16	40
+18	50
<b>35 30</b>	

(f)

hr	min
19	25
+13	50
<b>33 15</b>	

2. (a)

hr	min
8	45
- 4	20
<b>4 25</b>	

(b)

hr	min
12	10
- 6	25
<b>5 45</b>	

(c)

hr	min
15	30
- 11	00
<b>4 30</b>	

(d)	<i>hr</i>	<i>min</i>
	18	50
-	12	35
	<b>6</b>	<b>15</b>

(e)

<i>hr</i>	<i>min</i>
16	45
- 9	50
<b>6</b>	<b>55</b>

(f)	<i>hr</i>	<i>min</i>
	21	40
	- 13	55
	<b>7</b>	<b>45</b>

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- 1.** (a) 3 hours                (b) 2 hrs 45 minutes                (c) 1 hour 15 minutes  
(d) 3 hrs 10 min            (e) 2 hrs 40 minutes                (f) 3 hours 30 min  
(g) 12 hours                (h) 5 hours

**2.** (a) 1 : 30 p.m

**3.** (a) 4 hours 30 minutes

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- 1.**

(a) $1\frac{1}{2}$ days	= $(1.5 \times 24)$ hours	= <b>36 hours</b>
(b) 4 days	= $(4 \times 24)$ hours	= <b>96 hours</b>
(c) $5\frac{1}{2}$ days	= $(5.5 \times 24)$ hours	= <b>132 hours</b>
(d) 6 days	= $(6 \times 24)$ hours	= <b>144 hours</b>
(e) 10 days	= $(10 \times 24)$ hours	= <b>240 hours</b>
(f) a fortnight	= $(15 \times 24)$ hours	= <b>360 hours</b>
(g) $8\frac{1}{4}$ days	= $(8.25 \times 24)$ hours	= <b>198 hours</b>
(h) $4\frac{1}{4}$ days	= $(4.25 \times 24)$ hours	= <b>102 hours</b>

**2.**

(a) 4 years	= $(4 \times 12)$ months	= <b>48 months</b>
(b) $1\frac{1}{2}$ years	= $(1.5 \times 12)$ months	= <b>18 months</b>
(c) 1 years	= $(1 \times 12)$ months	= <b>12 months</b>
(d) 5 years	= $(5 \times 12)$ months	= <b>60 months</b>
(e) 7 years	= $(7 \times 12)$ months	= <b>84 months</b>
(f) 2.25 years	= $(2.25 \times 12)$ months	= <b>27 months</b>
(g) 3 years	= $(3 \times 12)$ months	= <b>36 months</b>
(h) $4\frac{1}{2}$ years	= $(4.5 \times 12)$ months	= <b>54 months</b>

3. (a) 4 weeks =  $(4 \times 7)$  days = **28 days**  
(b) 2 weeks =  $(2 \times 7)$  days = **14 days**  
(c) 6 weeks =  $(6 \times 7)$  days = **42 days**  
(d) 7 weeks =  $(7 \times 7)$  days = **49 days**  
(e) 11 weeks =  $(11 \times 7)$  days = **77 days**  
(f) 9 weeks =  $(9 \times 7)$  days = **63 days**  
(g) 3 weeks =  $(3 \times 7)$  days = **21 days**  
(h) 10 weeks =  $(10 \times 7)$  days = **70 days**

#### **4. Do it yourself.**

**Chapter : 13**

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(l) 70 rupees 92 paise = ₹70.92 =  $(70.92 \times 100)$  paise

= **7092 paise**

(m) 4 rupees 3 paise = ₹4.03 =  $(4.03 \times 100)$  paise

= **403 paise**

(n) 1 rupees 15 paise = ₹1.15 =  $(1.15 \times 100)$  paise

= **115 paise**

**4.** (a) 312 paise = ₹ **3.12**

(b) 555 paise = ₹ **5.55**

(c) 8139 paise = ₹ **81.39**

(d) 1254 paise = ₹ **12.54**

(e) 2100 paise = ₹ **21**

(f) 12 rupees 32 paise = ₹ **12.32**

(g) 80 rupees 22 paise = ₹ **80.32**

(h) 35 rupees 61 paise = ₹ **35.61**

(i) 4 rupees 3 paise = ₹ **4.03**

(j) 1 rupees 5 paise = ₹ **1.05**

(k) 106 rupees 21 paise = ₹ **106.21**

### Page – 127

**1.** (a)

$$\begin{array}{r}
 \text{₹} \quad p \\
 38 . \quad 95 \\
 45 . \quad 60 \\
 + \quad 146 . \quad 75 \\
 \hline
 231 . \quad 30
 \end{array}$$

(b)

$$\begin{array}{r}
 \text{₹} \quad p \\
 39 . \quad 94 \\
 432 . \quad 45 \\
 + \quad 342 . \quad 73 \\
 \hline
 815 . \quad 12
 \end{array}$$

(c)

$$\begin{array}{r}
 \text{₹} \quad p \\
 343 . \quad 25 \\
 813 . \quad 43 \\
 + \quad 45 . \quad 34 \\
 \hline
 1202 . \quad 02
 \end{array}$$

(d)

$$\begin{array}{r}
 \text{₹} \quad p \\
 873 . \quad 95 \\
 413 . \quad 60 \\
 + \quad 20 . \quad 75 \\
 \hline
 1307 . \quad 20
 \end{array}$$

(e)

$$\begin{array}{r}
 \text{₹} \quad p \\
 871 . \quad 55 \\
 34 . \quad 61 \\
 + \quad 245 . \quad 00 \\
 \hline
 1151 . \quad 16
 \end{array}$$

(f)

$$\begin{array}{r}
 \text{₹} \quad p \\
 781 . \quad 00 \\
 87 . \quad 54 \\
 + \quad 451 . \quad 82 \\
 \hline
 1320 . \quad 36
 \end{array}$$

(g)

$$\begin{array}{r}
 \text{₹} \quad p \\
 760 . \quad 50 \\
 864 . \quad 65 \\
 + \quad 55 . \quad 55 \\
 \hline
 1680 . \quad 70
 \end{array}$$

(h)

$$\begin{array}{r}
 \text{₹} \quad p \\
 182 . \quad 70 \\
 96 . \quad 85 \\
 + \quad 112 . \quad 90 \\
 \hline
 392 . \quad 45
 \end{array}$$

(i)

$$\begin{array}{r}
 \text{₹} \quad p \\
 9990 . \quad 06 \\
 622 . \quad 00 \\
 + \quad 242 . \quad 65 \\
 \hline
 10854 . \quad 71
 \end{array}$$

2. (a) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">375 . 50</td><td></td></tr> <tr><td style="text-align: right;">- 292 . 40</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">83 . 10</td><td></td></tr> </table>	₹	p	375 . 50		- 292 . 40		83 . 10		(b) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">422 . 76</td><td></td></tr> <tr><td style="text-align: right;">- 218 . 33</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">204 . 43</td><td></td></tr> </table>	₹	p	422 . 76		- 218 . 33		204 . 43		(c) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">454 . 61</td><td></td></tr> <tr><td style="text-align: right;">- 237 . 21</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">217 . 40</td><td></td></tr> </table>	₹	p	454 . 61		- 237 . 21		217 . 40	
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(g) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">2845 . 35</td><td></td></tr> <tr><td style="text-align: right;">- 864 . 75</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">1980 . 60</td><td></td></tr> </table>	₹	p	2845 . 35		- 864 . 75		1980 . 60		(h) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">8134 . 93</td><td></td></tr> <tr><td style="text-align: right;">- 5175 . 51</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">2959 . 42</td><td></td></tr> </table>	₹	p	8134 . 93		- 5175 . 51		2959 . 42		(i) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td style="text-align: center;">₹</td><td style="text-align: center;">p</td></tr> <tr><td style="text-align: right;">9900 . 50</td><td></td></tr> <tr><td style="text-align: right;">- 4318 . 40</td><td></td></tr> <tr><td style="text-align: right; border-top: 1px solid black; border-bottom: 3px double black;">5582 . 10</td><td></td></tr> </table>	₹	p	9900 . 50		- 4318 . 40		5582 . 10	
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9900 . 50																										
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5582 . 10																										

## Page – 122

3. Cost of school bag = ₹ 150 . 375

Cost of pens = ₹ 45 . 75

Cost of pencils = ₹ 90 . 25

Total money spent = ₹ 286 . 75

4. Cost of railway ticket = ₹ 320 . 50

Cost of bus ticket = +₹ 220 . 45

Total money spent = ₹ 540 . 95

5. Train fare = ₹ 1235 . 00

Bus fare = ₹ 240 . 50

Food expenses = ₹ 405 . 50

Money spent = ₹ 1881 . 00

Total money with Pummy = ₹ 5000 . 00

Money spent = ₹ 1881 . 50

Money left = ₹ 3119 . 00

Money spent = ₹ 1881 ; Money left = ₹ 3119

6. Cost of bicycle = ₹ 1785 . 50

Money with Sameer = ₹ 913 . 40

More money to be saved = ₹ 872 . 10

Ans = ₹ 872.10

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- |                |                |
|----------------|----------------|
| 1. (a) ₹ 762.3 | (b) ₹ 2913.54  |
| (c) ₹ 8818.24  | (d) ₹ 15601.3  |
| (e) ₹ 24562.8  | (f) ₹ 41804.91 |

## Page – 130

2.  $\text{₹ } 9.10 \times 14 = \text{₹ } 127.40$
3.  $\text{₹ } 556.78 \times 78 \times 19 = \text{₹ } 10578.82$
4.  $\text{₹ } 315 \times 78 \times 38 = \text{₹ } 11999.64$
5.  $\text{₹ } 617.19 \times 43 = \text{₹ } 26539.17$
6.  $\text{₹ } 384.50 \times 15 = \text{₹ } 57607.5$
7.  $\text{₹ } 24560 \times 12 = \text{₹ } 294720$
8. (a)  $\text{₹ } 15.73 \times 5 = \text{₹ } 78.65$   
(b)  $\text{₹ } 86.23 \times 2 = \text{₹ } 172.46$   
(c)  $\text{₹ } 25.75 \times 10 = \text{₹ } 257.5$   
(d)  $\text{₹ } 21.47 \times 12 = \text{₹ } 257.64$

## Page – 131

1. (a)  $\text{₹ } 71.05 \div 4 = \text{₹ } 17.7625$   
(b)  $\text{₹ } 425 \times 25 = \text{₹ } 17.01$   
(c)  $\text{₹ } 151.95 \div 29 = \text{₹ } 5.24$   
(d)  $\text{₹ } 144.96 \div 32 = \text{₹ } 4.53$   
(e)  $\text{₹ } 215.28 \div 3 = \text{₹ } 11.96$   
(f)  $\text{₹ } 4172.67 \div 3 = \text{₹ } 1390.89$
2.  $\text{₹ } 2128.76 \div 42 = \text{₹ } 50.68$
3.  $\text{₹ } 10764 \div 12 = \text{₹ } 897$
4.  $\text{₹ } 5160.90 \div 5 = \text{₹ } 1032.18$
5.  $\text{₹ } 2086.72 \div 3 = \text{₹ } 695.57$
6.  $\text{₹ } 156 \div 15 = \text{₹ } 10.4$

## **MODEL TEST PAPER - III**

- 1.** (a) 0.1 (b) 0.05  
(c) 0.026 (d) 0.14  
(e) 0.057 (f) 0.225  
(g) 0.016 (h) 8.129  
(i) 4.106 (j) 0.91  
(k) 32.516

**2.** (a) 0.09, 0.1, 0.2, 0.5, 0.7  
(b) 0.83, 0.134, 3.412, 17.834  
(c) 3.0, 3.3, 3.33, 3.3333  
(d) 0.1509, 3.7, 3.74, 7.6453, 9.1

**3.** (a) 625.64 (b) 223.625 (c) 623.34  
(d) 573.93 (e) 469.711 (f) 51.51

**4.** (a) 22 mm (b) 6 cm 7mm (c) 424 cm  
(d) 2m 73 cm (e) 5.05 km (f) 2 km 881 m

**5.** (a)  $30.23 \text{ cm}^2$  (b) 60.5 cm (c)  $17.26 \text{ m}^2$   
(d)  $86.091 \text{ m}^2$  (e) 37.08 km (f) 90.08 km  
(g) 0.45 kg (h) 50.5 kg (i) 70.08 l  
(j) 160.3l (k) 139.06 kg

**6.** (a) 9 hours (b) 7 hours 45 min  
(c) 18 hours 5 min (d) 28 hours 20 min  
(e) 35 hours 30 min (f) 33 hours 15 min

## **MODEL TEST PAPER - 133**

7. (a)

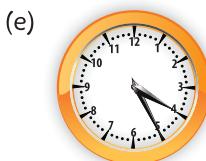


- (b)



- (c)





8. (a) (iv)

(b) (v)

(c) (ii)

(d) (iii)

(e) (i)

(e) (i)

9. (a) 240 minutes

(b) 150 minutes

(c) 140 minutes

(d) 225 minutes

(e) 480 minutes

(f) 315 minutes

10. (a) ₹ 17.7625

(b) ₹ 17.01

(c) ₹ 5.24

(d) ₹ 4.53

(e) ₹ 11.96

(f) ₹ 1390.89

## Chapter 14

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1. (a) (iv)

(b) (iii)

(c) (i)

(d) (ii)

2. (a) False

(b) False

(c) True

3. (a) Ray

(b) Line segment

(c) Line segment

(d) Line

(e) Line

(f) Ray

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4. (a) No

(b) Yes

(c) No

(d) No

### Page – 137

1. Do it yourself.

2. Do it yourself.

### Page – 140

1. (a) Triangle

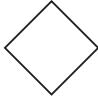
(b) Quadrilateral

(c) Triangle

2. (a)



(b)



3. Do it yourself.

4. (a) Sides = AB, BC, CD, DA

Vertices = A, B, C, D

(b) Sides = XY, YZ, ZX

Vertices = X, Y, Z

(c) Sides = PQ, QR, RS, SP

Vertices = P, Q, R, S

5. (a) True      (b) True      (c) False      (d) True

### Page – 141

1. Do it yourself.

2. Do it yourself.

### Page – 142

3. (a) OM, OP, OB, OQ, OA

(b) PQ, AB

(c) O

4. (a) radius = 2 cm

$$\text{diameter} = 2 \times \text{radius} = 2 \times 2 \text{ cm} = 4 \text{ cm}$$

(b) radius = 5 cm

$$\text{diameter} = 2 \times \text{radius} = 2 \times 5 \text{ cm} = 10 \text{ cm}$$

(c) radius = 8 cm

$$\text{diameter} = 2 \times \text{radius} = 2 \times 8 \text{ cm} = 16 \text{ cm}$$

(d) radius = 13 cm

$$\text{diameter} = 2 \times \text{radius} = 2 \times 13 \text{ cm} = 26 \text{ cm}$$

5. (a) diameter = 10 cm

$$\text{radius} = \frac{\text{diameter}}{2} = \frac{10 \text{ cm}}{2} = 5 \text{ cm}$$

(b) diameter = 16 cm

$$\text{radius} = \frac{\text{diameter}}{2} = \frac{16 \text{ cm}}{2} = 8 \text{ cm}$$

(c) diameter = 14 cm

$$\text{radius} = \frac{\text{diameter}}{2} = \frac{14 \text{ cm}}{2} = 7 \text{ cm}$$

(d) diameter = 32 cm

$$\text{radius} = \frac{\text{diameter}}{2} = \frac{32 \text{ cm}}{2} = 16 \text{ cm}$$

- |             |            |              |
|-------------|------------|--------------|
| 1. (a) Cube | (b) Cone   | (c) Cylinder |
| (d) Sphere  | (e) Cuboid | (f) Cube     |
| 2. (a) 1, 2 | (b) 1      | (c) 6        |
|             |            | (d) 12, 8, 6 |

**Chapter : 15**

1. (a) Perimeter of square =  $7\text{cm} \times 4 = 28\text{ cm}$   
(b) Perimeter of rectangle =  $2(l + b) = 2(4 + 2)\text{ cm} = 12\text{ cm}$   
(c) Perimeter of pentagon =  $6\text{ cm} \times 5 = 30\text{ cm}$   
(d) Perimeter of hexagon =  $4\text{cm } 2\text{mm} \times 6$   
=  $25\text{cm } 2\text{mm}$

2. (a) Perimeter =  $36\text{cm}$   
(b) Perimeter =  $30\text{cm}$   
(c) Perimeter =  $32\text{cm}$

3. Length =  $7\text{cm}$ , Perimeter of rectangle =  $22\text{cm}$

$$\begin{aligned}\text{Perimeter} &= 2(l + b) \\ 22\text{cm} &= 2 \times 7\text{cm} + 2b \\ 22\text{cm} &= 14\text{cm} + 2b \\ 22\text{cm} - 14\text{cm} &= 2b \\ 8\text{cm} &= 2b \\ b &= 4\text{cm} \\ \text{Breadth} &= 4\text{cm}\end{aligned}$$

4. Perimeter of square =  $4 \times \text{side}$   
=  $4 \times 12\text{ cm} = 48\text{ cm}$

Hence, the length of the race be **48 cm**

5. Perimeter of square =  $44\text{cm}$

$$\begin{aligned}4 \times \text{side} &= 44\text{ cm} \\ \text{side} &= \frac{44}{4}\text{ cm} \\ \text{side} &= 11\text{ cm}\end{aligned}$$

**1.** Do it yourself.

**2.** Perimeter = 1 km 400 m

$$\begin{aligned}\text{Distance covered} &= 1 \text{ km } 400 \text{ m} \times 5 \\ &= 7 \text{ km}\end{aligned}$$

### Page – 147

**1.**  $9 \text{ cm}^2$

**2.**  $12 \text{ cm}^2$

**3.**  $10 \text{ cm}^2$

**4.**  $6 \text{ cm}^2$

**5.**  $18 \text{ cm}^2$

**6.** 15 cm

### Chapter : 16

### Page – 150

**1.** (a) 84, 96

(b) 890, 1090

(c) 380, 260

**2.** (a) 29

(b) 72, 98

(c) 185, 250

**3.** (a) 15

(b) 30

(c) 738

**4.** (a) 26

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(b) 202 (c) 438

**5.** (a) 28

(b) 55

**6.** (a) 123454321

(b) 12345654321

(c) 1234567654321

**7.** (a)  $60 + 60 = 120$  (b)  $120 + 120 = 240$  (c)  $240 + 240 = 480$

### Chapter : 17

### Page – 155

**1.** (a) 2 children

(b) 8 children

(c) Brown ; 10 children

(d) Orange & Green ; 8 children

(e) 38 children

### Page – 156

**2.** (a) 44 students

(b) Art

(c) Karate

(d) Music and Dance

(e) 10 students

3. (a) Favourite Story books of Children

Jungle book	
Harry potter	
Secret seven	
Famous five	
 = 1 Story book	

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4. (a)

Apples	Numbers	Tally marks
	2	
	5	
	3	
	7	
	6	

5. (a)

Names of months	
January	
February	
March	
April	
	= 1 Sunny day

6. (a)  $7 \times 5 = 35$  raincoats

(b)  $4 \times 5 = 20$  raincoats

(c)  $19 \times 5 = 95$  raincoats

(d) 2017

7. (a)

Choice	Tally marks	No. of students
Garden	III	5
Beach	III III III	15
Zoo	III III II	12
Planetarium	III III	10
Museum	III II	7
	Total	49

(b) Total = 49 students

(c) Beach

(d) Garden

(e)  $12 - 10 = 2$  students**MODEL TEST PAPER : IV**

1. (a) True

(b) True

(c) False

(d) True

2. (a) 1, 2

(b) 1

(c) 6

(d) 12, 8, 6

3. (a) 15

(b) 30

(c) 738

4. (a)  $60 + 60 = 120$     (b)  $120 + 120 = 240$ (c)  $240 + 240 = 480$ 

5. (a)

Choice	Tally marks	No. of students
Garden	III	5
Beach	III III III	15
Zoo	III III II	12
Planetarium	III III	10
Museum	III II	7
	Total	49

(b) Total = 49 students

(c) Beach

(d) Garden

(e)  $12 - 10 = 2$  students

**6.** (a) Perimeter of square =  $7\text{cm} \times 4 = 28\text{ cm}$

(b) Perimeter of rectangle =  $2(l + b) = 2(4 + 2)\text{ cm} = 12\text{ cm}$

(c) Perimeter of pentagon =  $6\text{ cm} \times 5 = 30\text{ cm}$

(d) Perimeter of hexagon =  $4\text{cm } 2\text{mm} \times 6$

$$= 25\text{cm } 2\text{mm}$$

**7.** Do it yourself.

**8.** (a) ₹ 17.7625

(b) ₹ 17.01

(c) ₹ 5.24

(d) ₹ 4.53

(e) ₹ 11.96

(f) ₹ 1390.89

**9.** Do it yourself.

**10.** (a) No

(b) Yes

(c) No

(d) No