

# ANSWERS

## Chapter-1

### Exercise 1.1

- (a) 2,436 (b) 6,040 (c) 21,308 (d) 41,050 (e) 1,35,043 (f) 9,50,001 2. Do it yourself,
- (a) (iv); (b) (v); (c) (ii); (d) (i) (e) (iii)
- (a) Eighty-nine thousand four hundred fifty-six. (b) Thirty-four thousand three hundred seventy-two.  
(c) Four lakh sixty-seven thousand thirty. (d) Three lakh seventy thousand three hundred seventy-one
- (a) 39,005 (b) 44,767 (c) 70,695 (d) 7,08,056 (e) 10,00,682
- (a) 56,975 (b) 35,731 (c) 40,753 (d) 2,20,042
- (a)  $70,000 + 3,000 + 800 + 70 + 5$  (b)  $60,000 + 4,000 + 90 + 8$  (c)  $30,000 + 700 + 70$   
(d)  $5,00,000 + 20,000 + 5000 + 600 + 80 + 4$
- (a) 100 (b) 600 (c) 3,000 (d) 4,000 (e) 700 (f) 3,00,000 (g) 7 (h) 6,00,000
- (a) 7,450; 7,460; 7,470; 7,480 (b) 23,790; 23,800; 23,810; 23,820
- (a) 8,680; 8,780; 8,880; 8,980 (b) 46,939; 47,039; 47,139; 47,239
- (a) 5,674; 6,674; 7,674; 8,674 (b) 49,003; 50,003; 51,003; 52,003
- (a) 54,427; 64,427; 74,427; 84,427 (b) 48,679; 58,679; 68,679; 78,679
- (a) 606 (b) 60,666 (c) 66,000 (d) 60,006
- (a) 3600 (b) 3960 (c) 360 (d) 396

### Exercise 1.2

- (a) < (b) < (c) > (d) < 2. (a) 3,932 (b) 9,919 (c) 6,606 (d) 9,810 3. (a) 43,971 (b) 19,96  
(c) 84,931 (d) 98,632
- (a) 23,902; 30,939; 30,992; 30,999 (b) 4,961; 14,961; 40,196; 42,961 (c) 68,139; 68,391; 86,319; 98,631  
(d) 89,463; 94,846; 98,346; 2,48,396 5. (a) 5,693; 5,396; 4,639; 3,496 (b) 9,62,023; 3,23,216; 69,032; 6,242  
(c) 9,90,876; 9,80,776; 7,90,866; 7,76,690 (d) 7,89,032; 1,00,100; 1,00,000; 9,816 (e) 8,20,913; 5,10,482; 98,436; 46,931

### Exercise 1.3

- | 1. Greatest number | Smallest number |
|--------------------|-----------------|
| (a) 9832           | 2389            |
| (b) 8730           | 3078            |
| (c) 97653          | 35679           |
| (d) 76510          | 10567           |
| (e) 976541         | 145679          |
2. (a) 8762 (b) 204568 (c) 865410 (d) 12479 (e) 98410

### Exercise 1.4

- (a) 70 (b) 90 (c) 340 (d) 660 (e) 580 (f) 730 2. (a) 800 (b) 5,200 (c) 4,700 (d) 9,400 (e) 90 (f) 58,400
- (a) 8,000 (b) 8,000 (c) 1000 (d) 7,000 (e) 68,000 (f) 7,64,000

### Exercise 1.5

- (a) 80 apples (b) ₹ 800 (c) ₹ 2,800 (d) 3000 chairs

### Exercise 1.6

- (a) 18 (b) 30 (c) 40 (d) 29 (e) 47 (f) 49 2. (a) XIX (b) XXV (c) XXXIII (d) XLVID (e) L (f) LXXIV
- (a) XVIII; XX (b) XXXVIII; XL (c) XXXIX; XU (d) LXXXIX; XCI
- (a) < (b) > (c) > (d) > 5. (b) XX, (c) IX, (d) XXX (e) IV

### Higher Order Cognitive Skills (HOCS)

- (a) Seventy-eight thousand five hundred forty-nine. (b) Sixty-five thousand one hundred two. (c) Five lakh eightynine thousand three. (d) Nine lakh ninety-nine thousand ninety-nine. 2. (a) 83,060 (b) 65,902 (c) 4,05,082

- (d) 7,51,322 3. (a) 18,802; 38,159; 43,197; 2,00,403 (b) 27,318; 54,961; 65,839; 7,10,863 4. (a) 5,14,964; 3,51,964; 3,51,694; 3,51,496 (b) 3,10,284; 94,631; 88,031; 64,319 5. (a) 80 (b) 900 (c) 50,000 (d) 700 6. (a) 53,920; 54,020; 54,120; 54,220 (b) 45,170; 55,170; 65,170; 75,170 7. (a) 370 (b) 5,500 (c) 25,000 8. (a) XXVII (b) XXXIX (c) XV (d) XXV (e) XXXIII

## Chapter-2

### Exercise 2.1

- (a) 6,824 (b) 4,648 (c) 14,158 (d) 7,476 (e) 3,549 (f) 6,534 (g) 97,799 (h) 1,28,649 (i) 44,435
- (a) 96,777 (b) 89,734 (c) 26,651 (d) 65,416 (e) 58,876 (f) 51,904 3. (a) ₹ 33,857 (b) ₹ 69,190 (c) 35,683 people (d) 56,540 books (e) ₹ 14,985

### Exercise 2.2

- (a) 4,268 (b) 2,812 (c) 4,800 (d) 1,004 (e) 3,528 (f) 1,502 (g) 6,249 (h) 14,948
- (a) 1,104 (b) 3,429 (c) 3,058 (d) 8,564 (e) 4,743 (f) 36,022 3. (a) 3,977 (b) 4,573 (c) 21,648 (d) 1,112 (e) 3,141 (f) 3,761 (g) 4,650 (h) 4,653 (i) 6,131 (j) 5,441 4. (a) 1,163 (b) 3,164 (c) 3,706 (d) 24,168 (e) 30,735 (f) 21,479 5. (a) 30,414 (b) 141 Panthers (c) 11,738 deers (d) 7,949 trees (e) 4,034 monkeys (f) 1,336

### Exercise 2.3

- (a) 74 (b) 85 (c) 86 (d) 740 (e) 700 (f) 950 (g) 292 (h) 170 (i) 427 (j) 330 (k) 3,071 (l) 5,144 2. (a) 3,340 (b) 320 (c) 2,240 (d) 231 (e) 90 (f) 98 (g) 80 (h) 220

### Exercise 2.4

- (a) ₹ 1305.25; ₹ 194.75 (b) ₹ 371.50; ₹ 28.50 (c) ₹ 499.75; ₹ 0.25

2.

Amount		Amount								Paise	
Rupees	Paise	500	100	50	20	10	5	2	1	50	25
225	50		2		1		1			1	
676	75	1	1	1	1		1		1	1	1
277	00		2	1	1		1	1			
989	25	1	4	1	1	1	1	2			1
301	75		3						1	1	1
858	50	1	3	1			1	1	1	1	

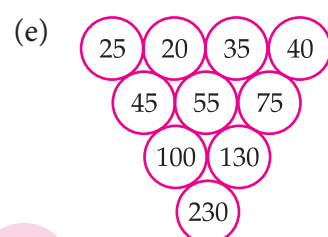
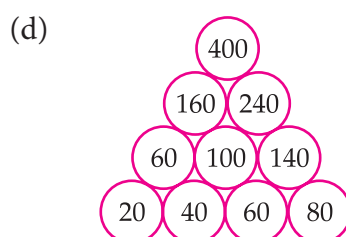
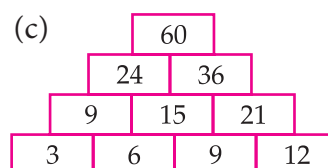
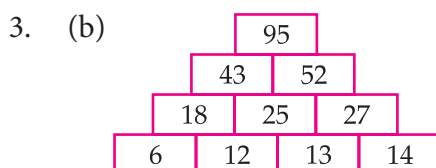
3.

Use following notes to make	Notes (in ₹)						
	100	50	20	10	5	2	1
₹ 100, ₹ 20, ₹ 1	1		1				8
₹ 50, ₹ 10, ₹ 5, ₹ 1		2		2	1		3
₹ 50, ₹ 20, ₹ 1		2	1				8
₹ 5, ₹ 2					24	4	
₹ 10, ₹ 5, ₹ 1				12	1		3

- ₹ 111.25, ₹ 106.50, ₹ 135.00, ₹ 128.50, ₹ 214.75 5. (a) ₹ 140.00 (b) ₹ 589.00 (c) ₹ 1086.00 (d) ₹ 9,427.50 (e) ₹ 182.00

### Exercise 2.5

- (a) 25, 30, 35 (b) 55, 66, 77 (c) 42, 36, 30 (d) 21, 25, 29 2. (a) 6, 9, 12, 15, 18 (b) 10, 14, 18, 26 (c) 4, 9, 16, 25 (d) 155, 255, 355, 455, 555, 655



4. (a) 12,5 (b) 6, 7 (c) 6, 5 (d) 22, 10 5. (a) 33 (b) 22

### Exercise 2.6

1. (a) 3,028 (b) 15,038 (c) 57,563 (d) 9,845 (e) 6,036 (f) 19,645 (g) 16,546 (h) 23,386

### Exercise 2.7

1. ₹ 1,219 2. 2,960 men 3. ₹ 450 4. 47,720 people 5. 4,702 pouches 6. ₹ 1,642 7. 7,59,160 bulbs

### Higher Order Cognitive Skills (HOCS)

1. (a) 3,613 (b) 12,128 (c) 6,298 (d) 2,752 (e) 6,001 (f) 52,270 2. (a) 400 (b) 108 (c) 800 (d) 731

3. (a) 
$$\begin{array}{r} 1\ 3\ 7\ 6 \\ +\ 4\ 9\ 8\ \boxed{1} \\ \hline 6\ 3\ 5\ 7 \end{array}$$
 (b) 
$$\begin{array}{r} 3\ 2\ 5\ 4 \\ +\ \boxed{2}\ \boxed{2}\ 0\ \boxed{7} \\ \hline 5\ 4\ 6\ \boxed{1} \end{array}$$
 4. ₹ 193.50, ₹ 6.50

5. ₹ 4571 6. ₹ 91.25

## Chapter-3

### Exercise 3.1

1. (a) 1,215 (b) 4,242 (c) 4,104 (d) 972 (e) 2,280 (f) 18,824 (g) 13,636 (h) 28,371 2. (a) 4,012 (b) 11,983 (c) 23,865  
3. (a) 3,468 (b) 1,5921 (c) 26,352 (d) 39,130

### Exercise 3.2

1. (a) 40 (b) 56 (c) 64 (d) 72 2. (a) 96 (b) 112 (c) 80 (d) 144 3. (a) 133 (b) 145 (c) 234 (d) 392 (e) 312 (f) 276  
(g) 343 (h) 354

### Exercise 3.3

1. (a) 360 (b) 1,500 (c) 1,600 (d) 1,600 (e) 3,500 (f) 4,500 2. (a) 3,000 (b) 4,900 (c) 900 (d) 4,200 (e) 1,800 (f) 2,000  
3. (a) 2,70,000 (b) 1,20,000 (c) 60,000 (d) 1,20,000 (e) 2,70,000 (f) 3,50,000 4. (a) 2,70,000 (b) 70,000 (c) 90,000  
(d) 60,000 (e) 2,70,000 (f) 3,20,000

### Exercise 3.4

1. (a) 23,655 (b) 19,304 (c) 16,504 (d) 40,410 (e) 11,184 (f) 49,588 (g) 43,200 (h) 28,305  
2. (a) 6,492 (b) 36,440 (c) 40,068 (d) 275 (e) 416 (f) 546 (g) 90 (h) 414

### Exercise 3.5

1. (a) 804 (b) 5032 (c) 21654 (d) 8316 (e) 19952 (f) 42771 (g) 45750 (h) 20,682  
2. (a) 60 (b) 190 (c) 36700 (d) 2300 (e) 993000 (f) 930000 (g) 7260000 (h) 700000 3. (a) 2190 (b) 4920 (c) 18760 (d) 42150  
(e) 53,900 (f) 30,720 (g) 2,30,760 (h) 98,760

### Exercise 3.6

1. (a) 2,20,376 (b) 1,46,160 (c) 2,20,025 (d) 1,64,160 (e) 1,36,240 (f) 1,91,646 (g) 1,85,350 (h) 4,41,252 (i) 3,13,848  
(j) 4,98,068 (k) 13,14,672 (l) 10,70,842 (m) 3,06,344 (n) 5,59,450  
2. (a) 1,60,800 (b) 1,12,800 (c) 2,26,500 (d) 1,87,600 (e) 1,90,200 (f) 8,07,000 (g) 8,19,200 (h) 19,53,000 (i) 16,75,200  
(j) 9,94,500

### Exercise 3.7

1. (a) 59,994; 5,99,994; 5,99,9994 (b) 4,004; 5,005; 6,006 (c) 17,776; 17,7776 (d) 27,775; 2,77,775  
(e) 555; 666 (f) 4,99,849  
2. (a) 30 (b) 48

### Exercise 3.8

1. 3,948 kg 2. ₹ 19,000 3. 52,325 flowers 4. 27,300 cards 5. 87,235 passengers 6. 6,300 houses  
7. 5,99,952 kg. mangoes 8. ₹ 60,171; ₹ 7,719 9. 44,640 minutes 10. 1,560 hours.

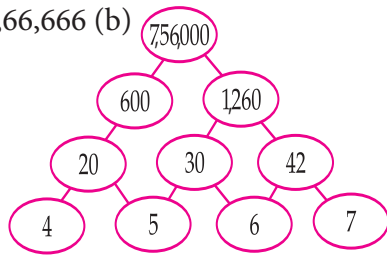
### Exercise 3.9

1. ₹ 2.50 2. ₹ 244 80 forms 3. ₹ 2,26,333 4. 977 clear days 5. ₹ 117384

### Higher Order Cognitive Skills (HOCS)

1. (a) 4,225 (b) 18,825 (c) 42,483 2. (a) 1,20,000 (b) 4,80,000 (c) 2,40,000 (d) 3,50,000 (e) 1,00,000 (f) 3,60,000

3. (a) 24,276 (b) 49,086 (c) 3,25,680 (d) 46,221 (e) 8,90,000 (f) 1,58,816 (g) 1,84,371 (h) 1,34,820  
 4. (a) 47,232 (b) 3,10,650 (c) 1,35,252 (d) 2,87,550 (e) 12,10,788 (f) 7,14,150 (g) 8,36,400 (h) 28,87,398  
 5. (a) 4,44,444; 5,55,555; 6,66,666 (b)



6. (a) 6-digit (b) 4 (c) 8,99,991 7. (a) ₹ 699.04 (b) ₹ 582.01 (c) ₹ 1,925 (d) ₹ 11303.62 8. (a) 342005 screws  
 (b) 1,24,644 bats (c) 86,940 books (d) 1,47,149 buttons (e) 1,182 mangoes (f) 408 samosa

## Chapter-4

### Exercise 4.1

1. (a)  $Q = 811$ ;  $R = 1$  (b)  $Q = 702$ ;  $R = 2$  (c)  $Q = 868$ ;  $R = 0$  (d)  $Q = 1079$ ;  $R = 8$  (e)  $Q = 1074$ ;  $R = 0$  (f)  $Q = 842$ ;  $R = 2$   
 (g)  $Q = 2367$ ;  $R = 2$  (h)  $Q = 1384$ ;  $R = 4$  (i)  $Q = 787$ ;  $R = 3$  (j)  $Q = 834$ ;  $R = 1$  (k)  $Q = 535$ ;  $R = 6$  (l)  $Q = 531$ ;  $R = 0$

### Exercise 4.2

1. (b) 8 (c) 3 (d) 9 (e) 7 (f) 9 2. (a) 33 (b) 7 (c) 4 (d) 3 (e) 21 (f) 11 (g) 12 (h) 8 (i) 13 (j) 9 (k) 12 (l) 6  
 3. (a)  $Q = 20$ ;  $R = 6$  (b)  $Q = 6$ ;  $R = 47$  (c)  $Q = 11$ ;  $R = 8$  (d)  $Q = 11$ ;  $R = 4$   
 (e)  $Q = 11$ ;  $R = 67$  (f)  $Q = 11$ ;  $R = 50$

### Exercise 4.3

1. (a)  $90 + 20$ ; 4 (b)  $80 + 10$ ; 8 (c)  $60 + 30$ ; 2 (d)  $100 + 30$ ; 3 (e)  $300 + 50$ ; 6 (f)  $400 + 10$ ; 40 (g)  $300 + 20$ ; 15  
 (h)  $600 + 40$ ; 15 (i)  $400 + 50$ ; 8 (j)  $600 + 50$ ; 12

### Exercise 4.4

1. (a)  $Q = 6$ ;  $R = 6$  (b)  $Q = 2$ ;  $R = 8$  (c)  $Q = 4$ ;  $R = 8$  (d)  $Q = 6$ ;  $R = 5$  (e)  $Q = 2$ ;  $R = 14$  (f)  $Q = 8$ ;  $R = 3$   
 (g)  $Q = 5$ ;  $R = 8$  (h)  $Q = 2$ ;  $R = 8$  (i)  $Q = 3$ ;  $R = 0$  (j)  $Q = 2$ ;  $R = 25$  (k)  $Q = 2$ ;  $R = 3$  (l)  $Q = 1$ ;  $R = 11$   
 2. (a)  $Q = 8$ ;  $R = 11$  (b)  $Q = 11$ ;  $R = 5$  (c)  $Q = 16$ ;  $R = 10$  (d)  $Q = 13$ ;  $R = 10$  (e)  $Q = 8$ ;  $R = 45$  (f)  $Q = 11$ ;  $R = 6$   
 (g)  $Q = 15$ ;  $R = 1$  (h)  $Q = 12$ ;  $R = 52$  (i)  $Q = 7$ ;  $R = 89$  (j)  $Q = 17$ ;  $R = 10$  (k)  $Q = 10$ ;  $R = 7$  (l)  $Q = 9$ ;  $R = 3$

### Exercise 4.5

1. (a) ₹ 8.75 (b) ₹ 37.38 (c) ₹ 35 (d) ₹ 56 (e) ₹ 16.36 (f) ₹ 25.05 (g) ₹ 35.26 (h) ₹ 56.15  
 2. (a) ₹ 16.50 (b) ₹ 33.94 (c) ₹ 21.32 (d) ₹ 33.12

### Exercise 4.6

1. (a) 3, 30, 300, 3000 (b) 2, 20, 200, 2000 2. (a) 500, 50, 5 (b) 1000, 100, 10, 1 3. (a) 4 (b) 6, 7 (c) 11, 9 (d) 7, 24, 27  
 (e) 8, 21, 18 (f) 9, 16, 9

### Exercise 4.7

1. ₹ 832 2. 22 packets, 10 sweets left 3. 444 bags, 4 bags left 4. 186 note-books 5. 250 6. ₹ 98 7. ₹ 60 8. 12  
 9. 111 rows, 5 chairs left 10. 20 rooms, 20 children left 11. 39 buses 12. ₹ 999

### Exercise 4.8

1. (a) (ii), 35 km (b) (i), 32 people (c) (iii) 2357 (d) (ii) ₹ 2605

### Exercise 4.9

1. (a) 13 (b) 32 (c) 22 (d) 10796 (e) 670 (f) 16288 (g) 80 (h) 15 (i) 853 (j) 207  
 2. 264 3. 59 4. ₹ 16505 5. ₹ 80 6. 4.

### Higher Order Cognitive Skills (HOCS)

1. (a) 7 (b) 32 2. (a)  $70 + 10$ ; 7 (b)  $80 + 20$ ; 4 3. (a)  $Q = 433$ ;  $R = 5$  (b)  $Q = 800$ ;  $R = 0$  (c)  $Q = 32$ ;  $R = 0$   
 (d)  $Q = 32$ ;  $R = 0$  (e)  $Q = 220$ ;  $R = 0$  (f)  $Q = 7$ ;  $R = 35$  4. (a)  $Q = 6$ ;  $R = 6$  (b)  $Q = 8$ ;  $R = 30$  (c)  $Q = 2$ ;  $R = 25$   
 (d)  $Q = 3$ ;  $R = 12$  (e)  $Q = 8$ ;  $R = 7$  (f)  $Q = 12$ ;  $R = 3$  (g)  $Q = 9$ ;  $R = 37$  (h)  $Q = 6$ ;  $R = 26$

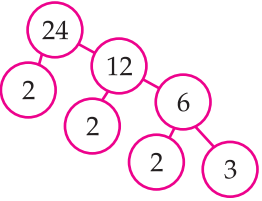
5. (a) 26 full page, 1 stamp left (b) 114 (c) 284 (d) 18 (e) ₹ 15.50

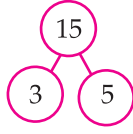
### Chapter-5

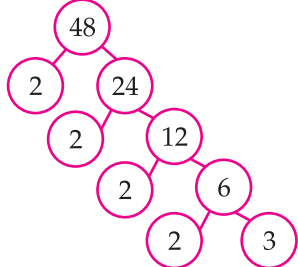
#### Exercise 5.1

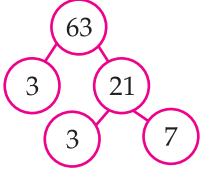
- (a) 1, 3, 5, 15 (b) 1, 2, 4, 5, 10, 20 (c) 1, 2, 3, 4, 6, 8, 12, 24 (d) 1, 2, 3, 4, 6, 9, 12, 18, 36 (e) 1, 41 (f) 1, 5, 11, 55 (g) 1, 3, 9, 27, 81 (h) 1, 3, 11, 33 (i) 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96 (j) 1, 2, 4, 5, 10, 20, 25, 50, 100
- (a) 1, 2, 4, 8, 16 (b) 1, 23 (c) 1, 3, 13, 39 (d) 1, 3, 5, 9, 15, 45 (e) 1, 2, 3, 6, 9, 27, 54 (f) 1, 2, 3, 6, 11, 22, 33, 66 (g) 1, 2, 3, 4, 6, 8, 9, 12, 24, 36, 72 (h) 1, 7, 49 (i) 1, 2, 3, 4, 6, 7, 12, 14, 21, 42, 84 (j) 1, 2, 7, 14, 49, 98
- (a) 96; 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96 (b) 44; 1, 2, 4, 11, 22, 44 (c) 156; 1, 2, 3, 4, 6, 12, 39, 52, 78, 156 (d) 154; 1, 2, 7, 11, 14, 22, 77, 154
- (a) True (b) False (c) True (d) True (e) True (f) True

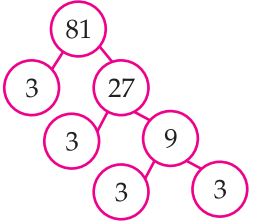
#### Exercise 5.2

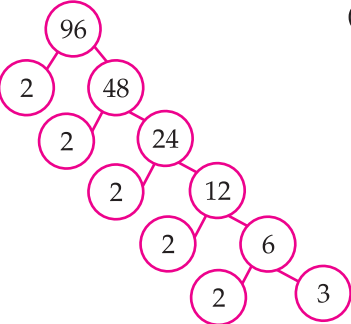
- (a) 

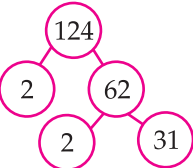
(b) 

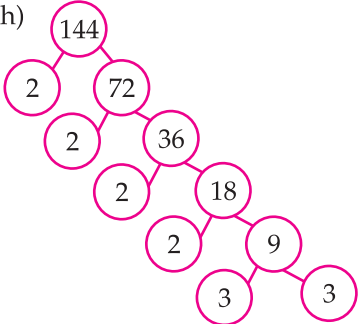
(c) 

(d) 

(e) 

(f) 

(g) 

(h) 
- (a) 1, 3 (b) 1 (c) 1, 7 (d) 1 (e) 1, 3 (f) 1, 7 (g) 1, 5 (h) 1, 2, 4 (i) 1, 2, 3, 6 (j) 1, 2 (k) 1, 7 (l) 1, 2, 4, 8

#### Exercise 5.2

1. 1, 2, 3, 4, 12, 16, 24, 48    2. 1, 2, 3, 6, 7, 14, 21, 42    3. 1, 2, 19, 38    4. 1, 2, 3, 4, 6, 8, 12, 24    5. 1, 2, 3, 6, 9, 18, 27, 54

#### Exercise 5.4

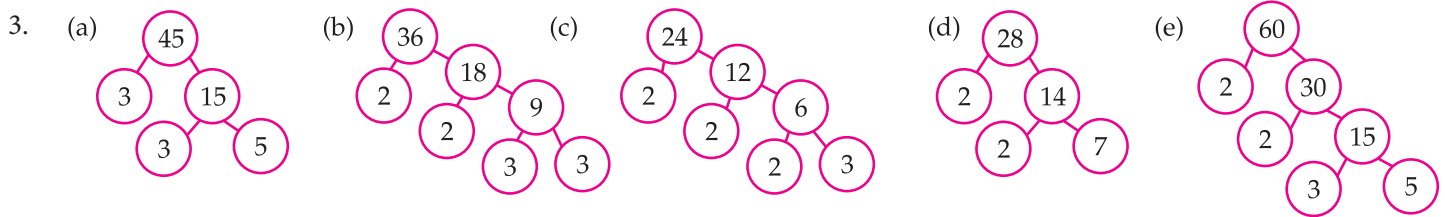
- (a) 12, 20, 28 (b) 15, 20 (c) 27, 36, 54, 63 (d) 21, 28, 42 (e) 36, 48, 72, 84 (f) 18, 24, 36    2. (a) 12, 15, 18 (b) 40, 50, 60 (c) 64, 80, 96 (d) 60, 75, 90 (e) 36, 45, 54 (f) 200, 250, 300    3. (a) 11, 22, 33, 44, 55 (b) 14, 28, 42, 56, 70 (c) 16, 32, 48, 64, 80 (d) 9, 18, 27, 36, 45 (e) 7, 14, 21, 28, 35 (f) 15, 30, 45, 60, 75 (g) 18, 36, 54, 72, 90 (h) 20, 40, 60, 80, 100
- (a), (b), (d)    5. (a) False (b) True (c) False (d) False (e) True

#### Exercise 5.5

- 12, 24, 36    2. 195, 105, 15, 120, 30, 135, 45, 165, 60, 150, 75, 180, 90    3. (a) 8, 16, 24
- (a) 20, 40, 60 (b) 6, 12, 18 (c) 6, 12, 18 (d) 8, 16, 24 (e) 21, 42, 63 (f) 30, 60, 90 (g) 12, 24, 36 (h) 24, 48, 72
- (a) Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33 Multiples of 7: 7, 14, 21, 28, 35 Common multiples: 21 (b) Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48 Multiples of 12: 12, 24, 36, 48 Common multiples: 12, 24, 36, 48 (c) Multiples of 2: 2, 4, 6, 8, 10, 12, 14, 16, 18 Multiples of 6: 6, 12, 18 Common multiples: 6, 12, 18 (d) Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40 Common multiples: 15, 30

#### Higher Order Cognitive Skills (HOCS)

- (a) 1, 2, 4, 5, 10, 20 (b) 1, 2, 5, 10 (c) 1, 2, 3, 6, 9, 18 (d) 1, 2, 3, 4, 6, 8, 12, 24 (e) 1, 2, 4, 7, 14, 28
- (a) 1, 2, 4, 5, 10, 20, 25, 50, 100 (b) 1, 2, 3, 4, 6, 9, 12, 18, 36 (c) 1, 3, 5, 9, 15, 45 (d) 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72 (e) 1, 2, 3, 6, 13, 26, 39, 78



4. (a) 16, 20, 24 (b) 24, 30, 36 (c) 32, 40, 48 (d) 80, 100, 120 5. (a) 3, 6, 9, 12, 15 (b) 5, 10, 15, 20, 25 (c) 15, 30, 45, 60, 75 (d) 25, 50, 75, 100, 125 6. 10, 20 7. (a) 10, 20, 30 (b) 21, 42, 63 (c) 8, 16, 24 (d) 30, 60, 120
8. (a) Multiples of 2: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 Multiples of 5: 10, 20 Common multiples: 10, 20  
 (b) Multiples of 2: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24 Multiples of 3: 6, 12, 18, 24 Common multiples: 6, 12, 18, 24

### Chapter-6

#### Exercise 6.1

1. (a) two (b) four (c) three (d) two 2. (a) cauliflowers (b) ₹ 20 (c) ₹ 20 (d) ₹ 30 (e) ₹ 40 (f) ₹ 5 (g) ₹ 15
3. (a)  $\frac{1}{4}$  (b)  $\frac{1}{4}$  (c)  $\frac{3}{4}$  (d)  $\frac{1}{2}$  (e)  $\frac{1}{4}$  (f)  $\frac{1}{2}$

#### Exercise 6.2

1. (a) (b) (c) (d)
2. (a) 2 (b) 4 (c) 2 (d) 6 (e) 4 (f) 6 3. (a) 3 (b) 3 (c) 4
4. (a) (b) (c) (d)
5. (a) 10 (b) 1 (c) 15 (d) 3 (e) 35 (f) 4 (g) 7 (h) 10 (i) 21

#### Exercise 6.3

1. (a) like (b) like (c) unlike (d) unlike (e) unlike (f) like 2. (a) < (b) > (c) < (d) > 3. (a) < (b) > (c) < (d) > (e) < (f) > (g) > (h) > (i) < (j) < (k) > (l) >
4. (a)  $\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{5}{7}, \frac{6}{7}$  (b)  $\frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{9}{11}, \frac{10}{11}$  (c)  $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$  (d)  $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$  (e)  $\frac{8}{15}, \frac{9}{15}, \frac{10}{15}, \frac{11}{15}, \frac{12}{15}, \frac{13}{15}$  (f)  $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}$
5. (a)  $\frac{8}{9}, \frac{6}{9}, \frac{5}{9}, \frac{4}{9}, \frac{3}{9}, \frac{1}{9}$  (b)  $\frac{12}{13}, \frac{11}{13}, \frac{9}{13}, \frac{8}{13}, \frac{7}{13}, \frac{5}{13}$  (c)  $\frac{19}{19}, \frac{17}{19}, \frac{16}{19}, \frac{15}{19}, \frac{13}{19}, \frac{9}{19}$  (d)  $\frac{6}{7}, \frac{5}{7}, \frac{4}{7}, \frac{3}{7}, \frac{2}{7}, \frac{1}{7}$  (e)  $\frac{9}{10}, \frac{8}{10}, \frac{7}{10}, \frac{4}{10}, \frac{2}{10}, \frac{1}{10}$  (f)  $\frac{17}{20}, \frac{16}{20}, \frac{15}{20}, \frac{9}{20}, \frac{5}{20}$

#### Exercise 6.4

1. Do it yourself.
2. (a)  $\frac{2}{2} = 1$  (b)  $\frac{6}{4}$  (c)  $\frac{5}{4}$  (d)  $\frac{2}{3}$  (e)  $\frac{9}{8}$  3. (a)  $\frac{5}{6}$  (b)  $\frac{4}{8}$  (c)  $\frac{8}{3}$  (d)  $\frac{5}{11}$  (e)  $\frac{8}{25}$  (f)  $\frac{13}{23}$

(g)  $\frac{5}{9}$     (h)  $\frac{7}{9}$     (i)  $\frac{9}{16}$     (j)  $\frac{2}{2}$     (k)  $\frac{17}{15}$     (l)  $\frac{9}{9}$

4. (b)  $\frac{4}{10}$     (c)  $\frac{6}{10}$     (d)  $\frac{3}{10}$

5. (a)  $\frac{2}{9}$     (b)  $\frac{3}{5}$     (c)  $\frac{2}{11}$     (d)  $\frac{3}{9}$     (e)  $\frac{10}{13}$     (f)  $\frac{1}{7}$     (g)  $\frac{2}{11}$     (h)  $\frac{3}{7}$     (i)  $\frac{4}{10}$     (j)  $\frac{3}{9}$     (k)  $\frac{1}{8}$     (l)  $\frac{1}{12}$

### Exercise 6.5

1.  $\frac{1}{3}, \frac{1}{5}, \frac{1}{7}, \frac{1}{11}, \frac{1}{17}$

2. Proper fractions  $\frac{3}{7}, \frac{4}{9}, \frac{6}{9}, \frac{4}{11}, \frac{1}{3}, \frac{2}{6}, \frac{4}{10}, \frac{1}{5}, \frac{5}{7}, \frac{2}{7}, \frac{2}{5}, \frac{5}{11}, \frac{5}{8}, \frac{9}{13}, \frac{11}{13}, \frac{6}{15}, \frac{7}{10}, \frac{3}{10}, \frac{2}{3}$

Mixed fractions  $1\frac{1}{4}, 1\frac{4}{7}, 5\frac{2}{3}, 1\frac{3}{4}, 1\frac{1}{3}, 1\frac{2}{3}, 4\frac{3}{10}, 2\frac{1}{4}, 8\frac{1}{3}$

Improper fraction  $\frac{5}{5}, \frac{4}{3}, \frac{7}{5}, \frac{18}{5}, \frac{16}{15}, \frac{14}{9}, \frac{23}{16}, \frac{11}{10}, \frac{4}{3}, \frac{12}{7}, \frac{16}{13}, \frac{12}{5}$

### Exercise 6.6

1. (a)  $1\frac{1}{2}$     (b)  $1\frac{3}{4}$     (c)  $1\frac{1}{4}$     (d)  $1\frac{1}{2}$     2. Mixed numbers:  $1\frac{1}{2}, 2\frac{1}{4}, 2\frac{1}{2}, 2\frac{2}{3}, 1\frac{1}{3}$  Improper fractions:  $\frac{3}{2}, \frac{9}{4}, \frac{5}{2}, \frac{8}{3}, \frac{4}{3}$

3. (a)  $5\frac{1}{5}$     (b)  $4\frac{2}{3}$     (c)  $2\frac{1}{2}$     (d)  $2\frac{3}{6}$     (e)  $2\frac{1}{3}$     (f)  $3\frac{1}{2}$     (g)  $5\frac{5}{6}$     (h)  $8\frac{2}{5}$

2. (a)  $\frac{30}{8}$     (b)  $\frac{11}{2}$     (c)  $\frac{35}{8}$     (d)  $\frac{41}{7}$     (e)  $\frac{10}{6}$     (f)  $\frac{48}{9}$     (g)  $\frac{10}{2}$     (h)  $\frac{71}{9}$

### Exercise 6.7

1. (a) 18    (b) 10    (c) 28    (d) 6    (e) 24    (f) 14    (g) 18    (h) 24    (i) 12

2. (a) 12 hour    (b) 400 gram    (c) 10 days    (d) 50 minutes    (e) 219 days    (f) 1 day    3. (a) 300 seats  
(b) 21 girls    (c) 12 votes    (d) 24 toffees    (e) 35 students

### Exercise 6.8

1.  $\frac{16}{4}$ m    2.  $\frac{1}{5}$     3.  $\frac{16}{2}$  m    4.  $\frac{3}{4}$     5.  $\frac{13}{5}$  metres.

### Higher Order Cognitive Skills (HOCS)

1. (a) 2    (b) 6    2. (a) <    (b) >    (c) >    (d) <

3. (a)  $\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{6}{7}$     (b)  $\frac{5}{11}, \frac{7}{11}, \frac{8}{11}, \frac{9}{11}, \frac{10}{11}$     4. (a)  $\frac{13}{14}, \frac{9}{14}, \frac{8}{14}, \frac{7}{14}, \frac{1}{14}$     (b)  $\frac{8}{9}, \frac{5}{9}, \frac{4}{9}, \frac{3}{9}, \frac{2}{9}$

5. (a)  $\frac{8}{7}$     (b)  $\frac{12}{9}$     (c)  $\frac{4}{11}$     (d)  $\frac{2}{7}$     6.  $\frac{1}{3}, \frac{4}{5}, \frac{6}{7}, \frac{6}{11}, \frac{4}{9}$     7. (a)  $2\frac{3}{4}$     (b)  $4\frac{1}{3}$     (c)  $4\frac{3}{6}$     (d)  $8\frac{2}{5}$

8. (a)  $\frac{31}{7}$     (b)  $\frac{9}{7}$     (c)  $\frac{31}{9}$     (d)  $\frac{14}{5}$     9. (a)  $2\frac{1}{2}$  kg    (b)  $\frac{4}{7}$  km. by bicycle

## Chapter-7

### Exercise 7.1

1. (d), (g), (i)    2. (a), (c), (d), (f)

### Exercise 7.2

1. (a) Square (b) Triangle (c) Rectangle (d) Pentagon (e) Quadrilateral    2. Rectangular    3. Do it yourself.

4. (a) ✓ (b) ✓ (c) × (d) ✓

### Exercise 7.3

1. Do it yourself    2. Do it yourself

3. (a) Diameter-10 cm, Radius-5 cm    (b) Diameter-6 cm, Radius-3 cm    (c) Diameter-12 cm, Radius-6 cm  
(d) Diameter-8 cm, Radius-4 cm    (e) Diameter-4 cm, Radius-2 cm

4. (a) 6 cm (b) 10 cm (c) 17 cm (d) 28 cm

(e) 4 cm (f) 23 cm (g) 35 cm (h) 13 cm

5. (a) 6 cm (b) 20 cm (c) 26 cm (d) 50 cm (e) 10 cm (f) 30 cm (g) 38 m (h) 14 m      6. Do it yourself.  
 7. Do it yourself      8. (a) half (b) radius (c) twice (d) circumference (e) closed (f) centre (g) centre (h) radii

#### Exercise 7.4

1. (a) Non-symmetrical (b) Non-symmetrical (c) Symmetrical (d) Symmetrical (e) Non-symmetrical  
 (f) Non-symmetrical (g) Non-symmetrical (h) Symmetrical (i) Non-Symmetrical (j) Symmetrical  
 (k) Non-symmetrical (l) Symmetrical    2. Do it yourself    3. Do it yourself    4. Do it yourself    5. Do it yourself

#### Exercise 7.5

1. Do it yourself    2. (a) ✓ (b) × (c) × (d) ✓ (e) ✓ (f) ✓ (g) × (h) × (i) ✓ (j) ✓    3. Do it yourself.

#### Exercise 7.6

Do it yourself

#### Exercise 7.7

1. MATHEMATICS    2. (a) 38 40 42 8 10 28 40    (b) 32 36 2 50 40 30 14 30 8    (c) 10 8 42 6 2 40 18 30 28  
 3. (a) 3 36 36 60 2415 615 57 60    (b) 9 45 36 45 63 54 60 2415 1215 57 27 21 42    (c) 24 45 36 75 12 3 75  
 (d) 57 3 66 15 39 45 42 15 75    4. (a) MAA (b) FRIEND    5. Do it yourself.

#### Higher Order Cognitive Skills (HOCS)

1. (b), (c), (e)    2. (a) closed (b) quadrilateral (c) hexagon (d) diameter (e) vertical    3. 12 cm    4. 12 cm  
 5. Do it yourself.    6. (a) N (b) N (c) Y (d) Y    7. (a), (c)    8. (a) HELLO (b) SWEET

### Chapter-8

#### Exercise 8.1

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

#### Exercise 8.2

1. Do it yourself.    2. Do it yourself.

#### Exercise 8.3

1. (a) 5 m 40 cm    (b) 3 m 20 cm    (c) 9 m 5 cm    (d) 4 m 50 cm    (e) 8 m 70 cm    (f) 6 m 10 cm  
 2. (a) 200 cm    (b) 700 cm    (c) 520 cm    (d) 350 cm    (e) 900 cm    (f) 185 cm

#### Exercise 8.4

1. (a) 6 km (b) 2 km 560 m (c) 8 km 7 m (d) 4 km 80 m (e) 1 km 760 m (f) 3 km (g) 7 km 600 m (h) 5 km 990 m  
 2. (a) 3000 m (b) 8500 m (c) 5500 m (d) 7000 m (e) 9000 m (f) 6500 m (g) 8000 m (h) 4000 m    3. 8 km, 8000 m  
 4. 1000 m, 1 km

#### Exercise 8.5

1. (a) 21500 ml (b) 51200 ml (c) 31500 ml (d) 71450 ml (e) 41260 ml (f) 61540 ml (g) 11670 ml (h) 81725 ml  
 2. (a) 5000 ml (b) 5500 ml (c) 3000 ml (d) 4500 ml (e) 8000 ml (f) 9500 ml (g) 6500 ml (h) 7000 ml    3. 2100 ml  
 4. 7 glasses    5. 2 l    6. 1500 ml

#### Exercise 8.6

1. (a) 2 kg 400 g (b) 3 kg 200 g (c) 9 kg 570 g (d) 3 kg 500 g (e) 1 kg 200 g (f) 2 kg 610 g  
 2. (a) 3000 g (b) 4500 g (c) 7000 g (d) 9250 g (e) 2000 g (f) 1500 g  
 3. (a) 10 (b) 25 (c) 12 kg 600 g (d) 10 kg 500 g    4. (a) 12 (b) 12 (c) 20

#### Higher Order Cognitive Skills (HOCS)

1. Do it yourself    2. (a) 5 m 30 cm (b) 625 cm (c) 7 km 650 m (d) 9250 m (e) 4 1500 ml (f) 5500 m1 (g) 11680 ml  
 (h) 4750 ml    3. 95 1 610 ml    4. 202 cm    5. 196 cm    6. 114 km    7. 6    8. 1500 ml    9.  $1\frac{3}{4}$  l  
 10. ₹ 40    11. ₹ 240    12. 20    13. 3 kg 800 g    14. 73 kg

### Chapter-9

#### Exercise 9.1

1. (a) 22 cm (b) 20 cm (c) 26 cm (d) 12 cm (e) 28 cm (f) 46 cm (g) 48 cm    2. (a) 16 cm (b) 22 cm (c) 16 cm  
 (d) 14 cm    3. (a) 9 cm (b) 4 cm (c) 7 cm    4. 4.48 cm    5. 60 cm    6. 40 m



### Exercise 9.2

1. (a) 21cm (b) 23 cm (c) 10 cm (d) 10 cm  
(c) Area-10 sq. cm, Perimeter-14 cm  
(f) Area-30 sq. cm, Perimeter-22 cm
2. (a) Area-15sq. cm, Perimeter-16cm (b) Area-20 sq. cm, Perimeter-18 cm  
(d) Area-25 sq. cm, Perimeter-20 cm (e) Area-4 sq. cm, Perimeter-8 cm

### Exercise 9.3

1. (a) 18 square units (b) 4 square units (c) 10 square units
2. A = 11, R = 14, E = 10, A = 11, AREA = 46

### Exercise 9.4

1. 20 square units 2. 14 square units 3. 7 square units 4. 16 square units 5. 14 square units 6. 11 square units

### Exercise 9.5

1. 360m 2. 80m 3. 66 m 4. 86m 5. 57m

### Higher Order Cognitive Skills (HOCS)

1. (a) 20 cm (b) 14 cm (c) 20 cm (d) 15 cm 2. (a) Area-12 sq. cm, Perimeter-14 cm (b) Area-12 sq. cm, Perimeter- 14 cm  
(c) Area-8 sq. cm, Perimeter-12 cm 3. (a) 21 square units (b) 23 square units (c) 21 square units

## Chapter-10

### Exercise 10.1

1. (a) 54 (b) 4 (c) 22 2. (a) 10: 12 (b) 6:58 (c) 1:45 3. Do it yourself 4. (a) 17,7 (b) 11,5 (c) 4,10 (d) 13,2

### Exercise 10.2

1. (a) p.m. (b) p.m. (c) p.m. (d) a.m. 2. (a) 6:00 a.m. (b) 2:30p.m. (c) 9:00p.m. 3. (a) a.m. (b) a.m. (c) p.m.  
(d) a.m. (e) p.m. 4. (a) 12:00 Noon (b) 11:30 p.m. (c) 3:00 a.m. (d) 11:15 a.m. (e) 9:30 p.m. (f) 12:05 a.m.

### Exercise 10.3

1. (a) 12:58 hours (b) 13:15 hours (c) 12:10 hours (d) 2:30 hours (e) 16:25 hours (f) 8:40 hours 2. Do it yourself.  
3. (a) 7:45 hours (b) 13:10 hours (c) 20:30 hours (d) 9:25 hours (e) 18:25 hours 4. 3 hours 15 minutes

### Exercise 10.4

1. (a) 7:00 hours (b) 16:00 hours (c) 9:00 hours (d) 11:00 hours (e) 16:00 hours (f) 9:00 hours 2. (a) 20 minutes  
(b) 30 minutes (c) 35 minutes (d) 30 minutes 3. (a) 12:10 p.m. (b) 3:35a.m. (c) 12:15 p.m. (d) 12:05 a.m.  
4. (a) 25 minutes (b) 1 hour 35 minutes (c) 2 hours 20 minutes (d) 8 hours 10 minutes (e) 3 hours 55 minutes  
(f) 12 hours 35 minutes (g) 6:35 p.m.

### Exercise 10.5

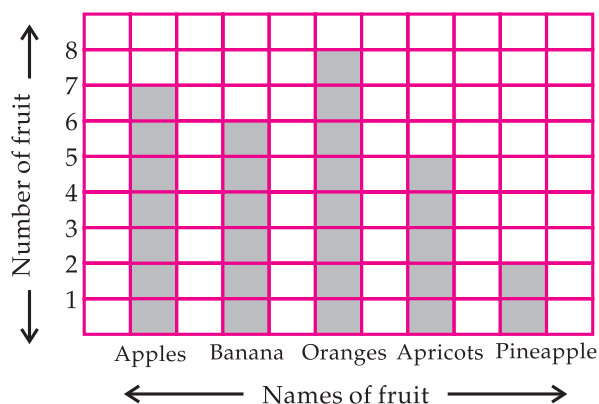
1. (a) 24 days (b) 88 days (c) 57 days 2. (a) 31 days (b) 36 days (c) 27 days (d) 95 days (e) 52 days

### Higher Order Cognitive Skills (HOCS)

1. Do it yourself 2. (a) a.m. (b) a.m. (c) a.m. (d) p.m. 3. (a) 1:58 hours (b) 17:38 hours (c) 00:00 hours  
(d) 12:00 hours (e) 6:58 hours (f) 18:50 hours 4. 9:35a.m. 5. (a) 86 days (b) 1 hour 15 minutes

## Chapter-11

### Exercise 11.1



2. (a) Ranjit, 1 (b) 25 (c) Milan, 6 (d) Renu and Alisha, 4 (e) Milan, 6 (f) 9  
 4. (a) 2008,200 (b) 2002 and 2006; 700 (c) 300 (d) 700 (e) 4300  
 5. (a) 40 (b) 20 (c) O (d) 25 (e) 2008 (f) 2004-2005

**Exercise 11.2**

1. (a) False (b) True (c) True (d) True (e) False  
 2. (a) 50 boys (b)  $\frac{1}{2}$  (c)  $\frac{1}{4}$  (d)  $\frac{1}{4}$  (e) 25 boys (f) 25 boys  
 3. (a) one-fourth (b) three-fourth (a) 21 days rainy (b) 7 days Sunny  
 4. (a)  $\frac{1}{2}$  (b)  $\frac{1}{4}$  (c)  $\frac{1}{4}$  (d) 25 (e) 25 (f) 50

**Higher Order Cognitive Skills (HOCS)**

1. (a) Mon, 100 (b) 200 (c) Tue and Wed (d) 100 (e) Saturday, 700  
 2. (a) T (b) T (c) T (d) T (e) F

