

ADDITIONALTM
PRACTICE

MATHEMATICS 5

Math Magic

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1. (i) Whale is longer in size and shark is shorter in size.
(ii) Whale is heavier and shark is lighter.
2. (i) Everest
(ii) Kailash
(iii) Difference between the heights of the highest peak and the lowest peak
 $8,848 \text{ m} - 6,638 \text{ m} = 2,210 \text{ m}$
3. (i) 110871 Estimated sum = 110900
(ii) 102017 Estimated sum = 102000
(iii) 28830 Estimated sum = 28800
(iv) 14867 Estimated sum = 14900
(v) 12688 Estimated sum = 12700
(vi) 855 Estimated sum = 900
4. (ii) 341899 Estimated sum = 342000
(iii) 53811 Estimated sum = 54000
(iv) 11199 Estimated sum = 11000
5. (i) Scooter
(ii) Bicycle
(iii) Bus, Scooter, Sports car, Auto rickshaw, Bike
(iv) Bicycle, Sports car, Auto rickshaw, Bike
(v) Scooter
6. (i) 1 (ii) 100 (iii) Ten lakhs (iv) 10001
(v) 1 (vi) 1
7. (i) False (ii) True (iii) True (iv) True
8. (i) 3 (ii) 20 (iii) 100 kg
9. Interest he returned to bank = ₹ 13000 – ₹ 10,500 = ₹ 2,500
Every month he paid = ₹ 13000 ÷ 12 = ₹ 1,083.33
10. (i) Ridhima
(ii) Ridhima
(iii) Ridhima more time in school and Kirti less time in school.
11. (a) Park (b) Grandfather (c) 15 km (d) 30 km
(e) Less than 1 hour

- 12.** The total capital of the bank at the time of opening was ₹ 161000.
 Total number of active members = 2300
 Contribution of each member = $161000 \div 2300 = ₹ 70$.
- 13.** (i) Distance covered by Helicopter in 3 hours = $400 \text{ km/h} \times 3 \text{ h} = 1200 \text{ km}$
 (ii) Distance covered by Jet Aircraft in 5 hours = $3500 \text{ km/h} \times 35 \text{ h} = 17500 \text{ km}$
 (iii) Time taken by Helicopter to cover 2000 km = $2000 \div 400 = 5 \text{ hours}$
 (iv) Time taken by aircraft to cover 2000 km = $2000 \div 900 = 2.2 \text{ hours}$
 Time taken by Jet aircraft to cover 2000 km = $2000 \div 3500 = 0.55 \text{ hours}$
 (v) Jet aircraft
 (vi) Jet aircraft and Passenger aircraft
 (vii) Helicopter and Passenger aircraft
- 14.** There are 10 classes and each class has 4 sections.
 2400 students are equally distributed in these classes and sections
 Therefore, number of students in each section = $2400 \div (10 \times 4) = 2400 \div 40 = 60$
- 15.** One Bus carry 60 passengers.
 Number of buses for 180 passengers = $180 \div 60 = 3$
- 16.** She earned = ₹ 200 – ₹ 100 = ₹ 100
- 17.** A truck can carry 1000 kg load.
 Number of trucks needed to carry 20000 kg load = $20000 \div 1000 = 20$

1. (i) Sides = 6, Angles = 6 (ii) Sides = 5, Angles = 5
(iii) Sides = 5, Angles = 5 (ii) Sides = 4, Angles = 4
2. Do yourself
3. (i) 3 (ii) 4 (iii) 4 (iv) 8
(v) 6 (vi) 5
4. (i) Acute angle (ii) Right angle (iii) Acute angle (iv) Obtuse angle
5. Do yourself
6. (i) Acute angle (ii) Acute angle (iii) Obtuse angle (iv) Right angle
(v) Straight angle (vi) Acute angle
7. (i)
8. (i) O (ii) AOC, BOC (iii) AOE, EOD, DOB (iv) AOD, EOB
9. (i) Yes (ii) Yes (iii) Yes (iv) No
(v) Yes (vi) No (vii) No
10. (i) Acute angle (ii) Right angle (iii) Obtuse angle (iv) Straight angle
(v) Acute angle (vi) Obtuse angle
11. Do yourself
12. $60^\circ, 60^\circ, 60^\circ$; Sum = 180°
13. Do yourself.
14. (i) Acute angle (ii) Obtuse angle (iii) Right angle
(iv) Right angle (v) Right angle (vi) Right angle
(vii) Obtuse angle (viii) Acute angle
15. (i) 45° (ii) $1/3$ (iii) 270° (iv) 2
16. (i) A, D, E (ii) A, B, C, F (iii) F
17. E, F, H, L
18. Do yourself
19. $2 < 1 < 3 < 4$
20. $4 > 1 > 2 > 3$
21. (i) B, D, E (ii) A
22. (i) 90° (ii) Straight (iii) angle
(iv) 180° (v) 90°

1. (i) 7 sq. unit (ii) 6 sq. unit (iii) 8 sq. unit (iv) 12 sq. unit
2. (iii)
3. (iii)
4. (iii)
5. (i) Perimeter = 24 unit, Area = 36 sq. unit
 (ii) Perimeter = 20 unit, Area = 19 sq. unit
 (iii) Perimeter = 20 unit, Area = 9 sq. unit
 (iv) Perimeter = 16 unit
6. (i) (iv) 7 (ii) 4
7. (i) 10 (ii) 7 (iii) 8 (iv) 5
 (i) (i) 14 (ii) 14 (iii) 18 (iv) 12
 (ii) (i)
8. Do yourself.
9. Do yourself.
10. Do yourself.
11. Do yourself.
12. (ii)
13. (i) C (ii) Do yourself
14. Do yourself
15. Area covered by wheat = 16 sq. units
 Area covered by oil seeds = 8 sq. units
 Wheat cover more area

1. Do yourself
2. Do yourself
3. Do yourself
4. (i)
5. (i) $\frac{1}{3}$ (ii) $\frac{1}{4}$ (iii) Can't say (iv) $\frac{1}{2}$
6. Do yourself
7. (i) Shaded part = $\frac{1}{4}$, Unshaded part = $\frac{3}{4}$
 (ii) Shaded part = $\frac{1}{4}$, Unshaded part = $\frac{3}{4}$
 (iii) Shaded part = $\frac{1}{2}$, Unshaded part = $\frac{1}{2}$
 (iv) Shaded part = $\frac{1}{2}$, Unshaded part = $\frac{1}{2}$
9. (i) $\frac{5}{9}$ (ii) $\frac{2}{9}$ (iii) $\frac{1}{9}$ (iv) Mint and Coriander
10. (i)
11. (i) False (ii) True (iii) True (iv) True
 (v) True (iii) False (vii) True
12. $\frac{7}{12}$
13. (a) $\frac{45}{4}$ (b) Rahul by $\frac{7}{4}$ kg
14. $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$ $\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$
 $\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$ $\frac{2}{5} = \frac{4}{10} = \frac{6}{15}$
 $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$
15. (i) Yes (ii) Yes (iii) No (iv) No
16. (i) 4 toffees and 9 lollipops.
 (ii) 8 toffees
 (iii) $\frac{3}{5}$ toffees and $\frac{6}{10}$ lollipops.
17. (i) A jean costs ₹ 500.
 A shopkeeper gives a discount of $\frac{5}{10}$ on the price.
 Bob pay to buy the jean = $5/10 \times 500 = ₹ 250$

(ii) Total cost = $(₹ 95 \times 17/5) + (₹ 95 \times 11/5) = 19 \times 17 + 19 \times 11 = ₹ 532$

(iii) Time spent in bus = $4/5 \times 50$ minutes = 40 minutes

(iv) Travelled distance by foot = $115/2 - (88/3 + 131/6) = 115/2 - 307/6 = 38/6 = 19/3$ km

(v) Number of students failed = $1/6 \times 42 = 7$.

18. Sumit had ₹ 2400 in his pocket.

He spent half of money on breakfast = $1/2 \times 2400 = ₹ 1200$

1/3rd of remaining on buying grocery = $1/3 \times ₹ 1200 = ₹ 400$

1/4 th of remaining on clothes = $1/4 \times ₹ 800 = ₹ 200$

Money left with him = $₹ 2400 - (₹ 1200 + ₹ 400 + ₹ 200) = ₹ 600$

19. (i) 12500 (ii) 250 (iii) 80 (iv) 140
 (v) 1.5 (vi) 4/5 (vii) 1/24 (viii) 1/7 (ix) 3/10
 20. (i) ₹ 120 (ii) ₹ 20 (iii) ₹ 125 (iv) ₹ 90

(v) Item	Price (In ₹ per kg)	Amount (in ₹)
(a)	30	60
(b)	60	150
(c)	50	62.5
(d)	30	30
(e)	80	40
(f)	40	190
Total		₹ 532.5

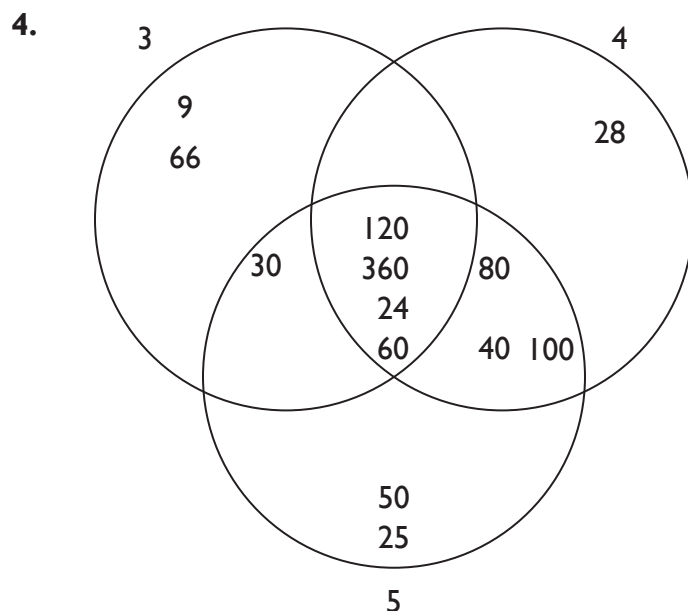
1. Do yourself
2. 4
3. (i) 2 (ii) 2 (iii) 1
 (iv) 1 (v) 2 (vi) 1
4. Do yourself
5. (ii) No (iii) Yes (iv) Yes
 (v) No (vi) Yes
6. (ii) Yes (iii) Yes (iv) No
 (v) No (vi) Yes
7. Do yourself
8. Do yourself
9. Do yourself
10. Do yourself
11. Do yourself
12. (i), (ii), (iii), (vi)
13. (iii), (iv), (vi), (viii), (ix), (x), (xiv) remains same after rotaion.
14. Only (v) and (vi) remains same

1. (i) 20, 22, 24, 26, 28
 (ii) 11, 14, 17, 20, 23, 26, 29
 (iii) 20, 26
 (iv) Yes

2.	1st	2nd	3 rd	4th	5th
(i) 5	10	15	20	25	30
(ii) 7	14	21	28	35	42
(iii) 9	18	27	36	45	54
(iv) 11	22	33	44	55	66
(iv) 14	28	42	56	70	84

3.	2	3	4	(5)	6 ✓	7	8	9	(10)
11	12 ✓	13	14	(15)	16	17	18 ✓	19	(20)
21 ✓	22	23	24 ✓	(25)	26	27 ✓	28	29	(30)
31	32	33	34	(35)	36 ✓	37	38	39 ✓	(40)
41	42 ✓	43	44	(45)	46	47	48 ✓	49	

(iv) 30



5. (i) 6, 12, 18
 (ii) 60, 120, 180
 (iii) 42, 84, 136

(iv) 8, 16, 24

(v) 9, 18, 27

6. (i) 13

(ii) 11

(iii) 5

(iv) 9, 27

(v) 25

(vi) 14, 28

7. 30

8. 30

9. 127 divisible by 64340 divisible by

854 divisible by 89567 divisible by

3434 divisible by 83967 divisible by

14456 divisible by 8897 divisible by

10. (i) 165

(ii) 42

(iii) 143

(iv) 286

(v) 35

11. 1000

12. 99999

13. 9996

14. 1002

15. 100008

16. 999

17. (ii) (a) = 4

(iii) (a) = 5, (b) = 11

(iv) (a) = 3, (b) = 7, (c) = 5

(v) (a) = 13, (b) = 3, (c) = 11

18. (i) 8

(ii) 6

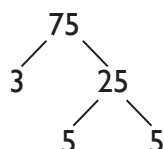
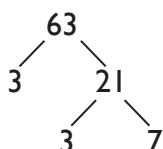
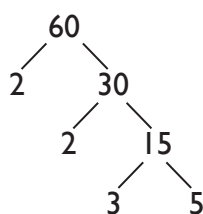
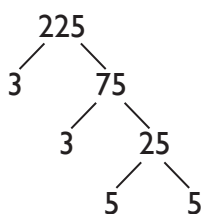
(iii) 15

(iv) 6

(v) 3

(vi) 30

19.



20. (i) factor

(ii) 1

(iv) 1

(v) equal

21. (i) $9 = 3 \times 3$; $12 = 2 \times 2 \times 3$; $18 = 2 \times 3 \times 3$

(ii) Highest common factor of 56 cm and 140 cm is 28 cm.

Therefore, 28 cm long tap can measure 56 cm and 14 cm exactly.

(iii) Lowest common multiple of 4, 5, 7 = 140

Therefore, minimum number of chocolates she must have bought = 140.

(iv) $28 = 2 \times 2 \times 7$; $42 = 2 \times 3 \times 7$; $56 = 2 \times 2 \times 2 \times 7$

Greatest factor = 14

Therefore, the greatest possible length of each plank = 14 m

(v) Common multiple of 5, 6, 8 = 120

Therefore, smallest number of chocolates Raju had = $120 + 1 = 121$.

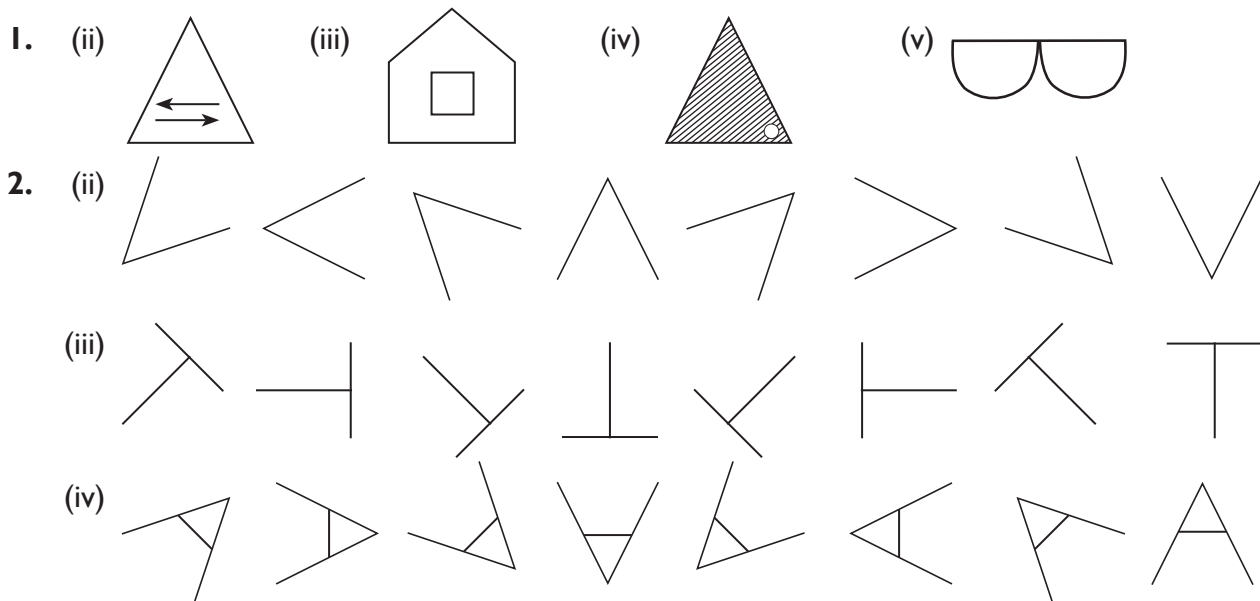
(vi) $36 = 2 \times 2 \times 3 \times 3$; $48 = 2 \times 2 \times 2 \times 2 \times 3$; $60 = 2 \times 2 \times 3 \times 5$

Highest common factor = 12

Therefore, maximum number of flower pots that can be arranged in a single row = 12

(vii) Common multiple of 3, 4, 5 = 60

Therefore, the shortest length of the path is 60 m



3. (i) (d) (ii) (d) (iii) (f) (iv) (d) (v) (f)

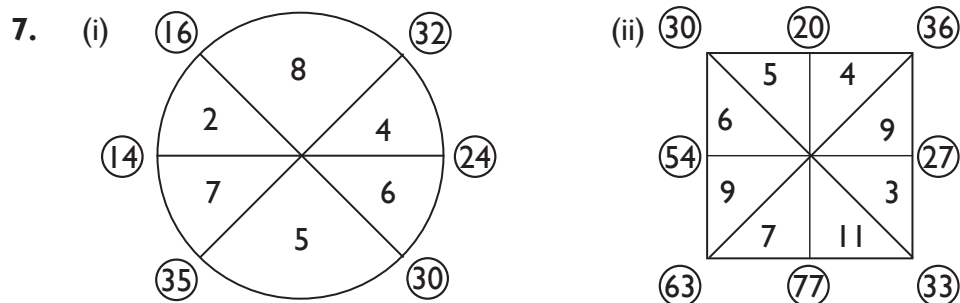
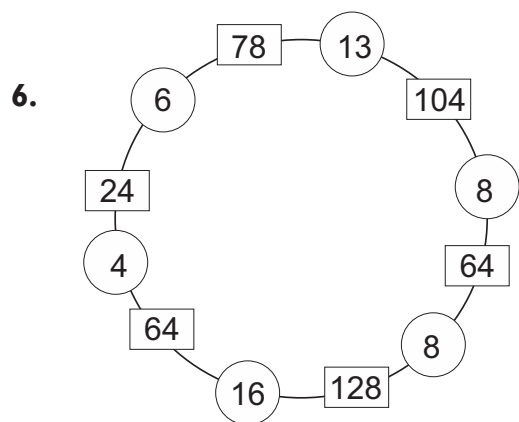
4. (i) (a) (ii) (a) (iii) (b) (iv) (a)

5. (i)

16	11	18
17	15	13
12	19	14

(ii)

8	3	4
1	5	9
6	7	2

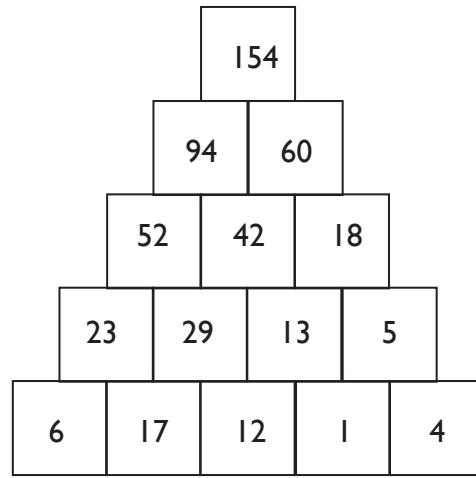
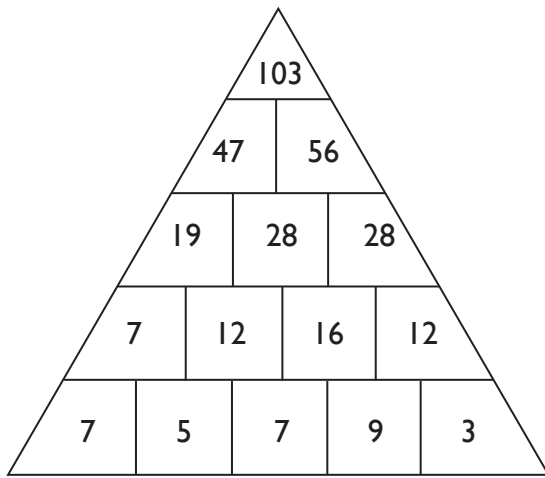


8. 625, 676, 729
 9. 121, 144, 169, 196, 225, 256, 289, 324

10. (ii) $86 + 68 = 154$
 (iii) $535 + 535 = 1070$
 (iv) $672 + 276 = 948$

11. $25 \times 8 = 200$
 $25 \times 10 = 250$
 $25 \times 12 = 300$
 $25 \times 14 = 350$

12.



13. (i) 15 (ii) 25 (iii) 29 (iv) 49
14. a. (a) 49 (b) 100
 b. 888 (a) 88888 (b) 888888
 c. (a) 12321 (b) 1111×1111
 d. (a) 11111 (b) $12345 \times 9 + 6 = 111111$ (c) $123456 \times 9 + 7 = 1111111$
 e. (a) $1234 \times 8 = 9876 - 4$ (b) $12345 \times 8 = 98765 - 5$
15. (1) $5 \times 5 + (2 \times 5) + 1 = 6 \times 6$
 (2) $6 \times 6 + (2 \times 6) + 1 = 7 \times 7$

1. (i) Karnataka, Maharashtra, Madhya Pradesh and Rajasthan
(ii) (Gujarat, Rajasthan, Punjab, Jammu & Kashmir)
2. (i) 35 km (ii) South
3. Do yourself
4. Do yourself
5. (i) Towards south-east (ii) ISBT
6. (i) 6 km (ii) (d) (iii) Bodhgaya and Murgan
(iv) West (v) 5 km (vi) 5 km
7. (i) 150 m²
(ii) Living Room
(iii) (a) 150 m² (b) 375 m² (c) 600 m² (d) 150 m²
(iv) 50 m²

1. Cube, Cuboid
2. (iii), (iv), (v), (vi) are 2-D figures
(i), (ii), (vii) are 3-D figures
3. (i) $\leftrightarrow$ (b) (ii) $\leftrightarrow$ (c) (iii) $\leftrightarrow$ (a)
4. (i)
5. (i)
6. Do yourself
7.

Row I	Row II
(iv)	(i)
(iii)	(ii)
(i)	(iii)
(ii)	(iv)
8. Do yourself
9. (iii)
10. Top $\rightarrow$ Tree, Bottom $\rightarrow$ Design
11. (ii)
13. Do yourself
14. Do yourself
15. (i) $\leftrightarrow$ (c) (ii) $\leftrightarrow$ (b) (iii) $\leftrightarrow$ (d) (iv) $\leftrightarrow$ (a)
16. Do yourself
17. (i) 17 (ii) 16
18. (i) True (ii) False (iii) True
19. Third figure.

1. (ii) 8.5 (iii) 8 (iv) 9 (v) 7.5
2. (i) 16 (ii) 18 (iii) 14
(iv) 16 (v) 10
3. (i) 0.2 (ii) 0.6 (iii) 0.5
(iv) 0.1 (v) 0.32
(vi) 0.76 (vii) 0.6 (viii) 0.68
4. (i) $\frac{3}{5}$ (ii) $\frac{21}{25}$ (iii) $\frac{17}{20}$ (iv) $\frac{3}{50}$
(v) $\frac{11}{50}$ (vi) $\frac{7}{10}$ (vii) $\frac{12}{25}$
5. (i) 51.68 (ii) 0.5168 (iii) 516.8 (iv) 0.05168
(v) 5168 (vi) 0.005168
6. (i) 85.05 (ii) 22.4 (iii) 25.47 (iv) 92.05
(v) 81.6 (vi) 56.24
7. (i) $\leftrightarrow$ (e) (ii) $\leftrightarrow$ (b) (iii) $\leftrightarrow$ (d)
(iv) $\leftrightarrow$ (c) (v) $\leftrightarrow$ (a)
8. (i) 0.3 (ii) 0.52 (iii) 0.35 (iv) 0.7
9. (i) $>$ (ii) $=$ (iii) $>$ (iv) $>$
10. (i) 6.2 (ii) 0.39 (iii) 4.58 (iv) 48.8
(v) 6.25 (vi) 57 (vii) 7860
11. (i) 1.46 (ii) 39.5 (iii) 506.35 (iv) 78
(v) 85.7 (vi) 3.05
12. (i) 5°C (ii) 120°F (iii) 65°F
(iv) 20°C (v) 25°F
13. (i) Japan (ii) Mr. Mehra, by ₹ 6482.2
(iii) 60 euro = $60 \times 72.10 = ₹ 4326$
Shreya spent ₹ 3500.
She save = $4326 - 3500 = ₹ 826$
(iv) 1 yen = ₹ 0.55
275 yen = $275 \div 0.55 = ₹ 500$

14. (i) Gold (ii) $2843.69^{\circ}\text{C} - 143.27^{\circ}\text{C} = 2700.42^{\circ}\text{C}$
 (iii) Water (iv) $2843.69^{\circ}\text{C} - 100^{\circ}\text{C} = 2743.69^{\circ}\text{C}$
15. (i) Srinagar (ii) 47.2 mm (iii) 4.7 mm (iv) $4.1\text{ mm} - 0.7\text{ mm} = 3.4\text{ mm}$
16. (ii) 0.32 (iii) 6.45 (iii) 9.008 (iv) 0.87
 (v) 56.3 (vi) 69.35
17. (i) Total cost = ₹ 5.80 + $2 \times$ ₹ 4 + $5 \times$ ₹ 2.50 = ₹ 5.80 + ₹ 8 + ₹ 12.5 = ₹ 26.30
 (ii) Sarika paid = ₹ 10.50 + ₹ 12.75 + ₹ 6.75 = ₹ 30
 (iii) Priya
 (iv) Height of Ujjwal in class IV = $1.8\text{ m} - 0.25\text{ m} = 1.55\text{ m}$
 Height of Shweta = $1.5 \times 1.55\text{ m} = 2.325\text{ m}$
 (v) Rohit had ₹ 150. He bought sugar for ₹ 38.50, rice for ₹ 70 and biscuits for ₹ 15.25.
 How much money was Rohit left with = ₹ 150 – ₹ (38.50 + 70 + 15.25)
 = ₹ 150 – ₹ 123.75 = ₹ 26.25
 (vi) Temperature on Sunday = $32.7^{\circ}\text{C} - 2.5^{\circ}\text{C} = 30.2^{\circ}\text{C}$
18. (i) ₹ 30.37 + ₹ 50.25 = ₹ 80.62
 (ii) ₹ 41 + ₹ 19.2 = ₹ 60.2
 (iii) ₹ 154.80 + ₹ 12.80 + ₹ 50.62 = ₹ 218.22

1. (a) (ii) (b) (i) (c) (i) (d) (i)
(e) (i) (f) (ii) (g) (i) (h) (iv)
2. (i) 16 m (ii) 26 cm, 42 cm² (iii) 30 m
(iv) 92 m, 528 m² (v) 44 cm (vi) 11 cm, 121 cm²
3. Do yourself
4. (i) 64 cm² (ii) 125 cm² (iii) 32 cm
(iv) 60 cm (v) 61 cm² (vi) 28 cm
5. (i) Area = 8 cm², Perimeter = 12 cm
(ii) Area = 5 cm², Perimeter = 10 cm
(iii) Area = 8 cm², Perimeter = 14 cm
(iv) Area = 14 cm², Perimeter = 20 cm
6. (i) 20 cm (ii) 22.8 cm (iii) 19 cm
(iv) 32 cm (v) 16 cm
7. (a) Perimeter of the frame = Perimeter of rectangular shape = $2 \times (6 \text{ m} + 5 \text{ m}) = 22 \text{ m}$
(b) Maximum number of students sit on the ground
= Ground area $\div$ area occupied by one student
= $(48 \text{ m} \times 60 \text{ m}) \div (3 \text{ m} \times 4 \text{ m}) = 240$
(c) Length of wire required to fence the boundary = sum of all sides = 36 m
(d) (i) Area of side wall = Area of wall – Area of window
= $5 \text{ cm} \times 5 \text{ cm} - 1 \text{ cm} \times 1 \text{ cm} = 25 \text{ cm}^2 - 1 \text{ cm}^2 = 24 \text{ cm}^2$
(ii) Area of front wall = Area of wall – Area of door
= $7 \text{ cm} \times 6 \text{ cm} - 2 \text{ cm} \times 1 \text{ cm} = 42 \text{ cm}^2 - 2 \text{ cm}^2 = 40 \text{ cm}^2$
(e) Side of field = 25 m, Perimeter of field = $4 \times 25 \text{ m} = 100 \text{ m}$
So, Maximum area can be fenced = $25 \times 25 = 625 \text{ m}^2$
(f) Painted area = $100 \text{ cm} \times 200 \text{ cm} - (24 \text{ cm} \times 30 \text{ cm} + 40 \text{ cm} \times 40 \text{ cm})$
= $20000 \text{ cm}^2 - 2320 \text{ cm}^2 = 17680 \text{ cm}^2$
8. Area of figure = $3 \text{ m} \times 3 \text{ m} + 4 \text{ m} \times 1.5 \text{ m} = 9 \text{ m}^2 + 6 \text{ m}^2 = 15 \text{ m}^2$
9. Area of pathway = $20 \text{ m} \times 25 \text{ m} - 22 \text{ m} \times 17 \text{ m} = 500 \text{ m}^2 - 374 \text{ m}^2 = 126 \text{ m}^2$
10. Lowest common multiple of 1, 4, 7, 8, 9, 10, 14, 15 and 18 cm = 5040 cm
Perimeter of square of side 5040 cm = $4 \times 5040 = 20160 \text{ cm}$
Area of square of side 5040 cm = $5040 \times 5040 = 25401600 \text{ cm}$

1. (i) (a) 18 (b) 17 (c) 14 (d) 8
(d) 23 (f) 15
(ii) 87 (iii) Mixed fruit (iv) False (v) Orange (vi) 3
2. Do yourself
3. Missing number = $150 - 137 = 13$
4. (i) Hockey = 14 Football = 4 Skiing = 12
(ii) (a) Football (b) Hockey (c) 10
5. (i) 36 (ii) 16 (iii) 28 (iv) 20
6. (i) English (ii) 40 crores (iii) No (iv) 60 crores (v) 8 crores
7. (i) 25% (ii) 50% (iii) 25%
8. (i) ₹ 250 (ii) ₹ 125 (iii) ₹ 500 (iv) ₹ 125
9. (i) 25% (2) 12.5% (3) 12.5% (4) 37.5% (5) 12.5%
10. (i) (a) (ii) 3745 (iii) 6th year
11. (i) 80 minutes (ii) Saturday and Sunday
(iii) True (iv) False

1. (ii)

	20	6
	400	120
2	40	12

$$\begin{array}{r} 400 \\ 120 \\ 040 \\ 012 \\ \hline 572 \end{array}$$

	40	8
20	800	160
7	280	56

$$\begin{array}{r} 800 \\ 280 \\ 160 \\ 56 \\ \hline 1296 \end{array}$$

(iii)

	90	6
10	900	60
5	450	30

$$\begin{array}{r} 900 \\ 450 \\ 60 \\ 30 \\ \hline 1440 \end{array}$$

	70	4
30	2100	120
6	420	24

$$\begin{array}{r} 2100 \\ 420 \\ 120 \\ 24 \\ \hline 2664 \end{array}$$

2. (ii) Product = 12495, Nearest to 100 = 12500

(iii) Product = 11102, Nearest to 100 = 11100

(iv) Product = 21648, Nearest to 100 = 21600

3. (i) Cloth x = 112 m²

Cloth y = 216 m²

Cloth z = 120 m²

(ii) Total cost = $112 \times 90 + 216 \times 75 + 120 \times 155$
 $= 10080 + 16200 + 18600 = 44880$

4. (i) 3000 (ii) Yes (iii) $360 \times 100 = 36000$

5. (i) Kartik will earn $180 \times 72 = ₹ 12960$ in 72 days

(ii) Number of letters = $1592 \times 125 \times 42 = 8358000$

(iii) 565 trucks can carry $(7833 \text{ kg} \times 565) = 4425645 \text{ kg}$

6. (i) 7820 (ii) 1581

7. (i)
$$\begin{array}{r} 3 \overline{)3945} \text{ (1315)} \\ \underline{3} \\ \times 9 \\ \underline{9} \\ \times 4 \\ \underline{3} \\ \underline{15} \\ \underline{15} \\ \times \end{array}$$

(iii)
$$\begin{array}{r} 4 \overline{)4764} \text{ (1191)} \\ \underline{4} \\ \times 7 \\ \underline{4} \\ \times 36 \\ \underline{36} \\ \times 4 \\ \underline{4} \\ \times \end{array}$$

(v)
$$\begin{array}{r} 9 \overline{)7209} \text{ (801)} \\ \underline{72} \\ \times 9 \\ \underline{9} \\ \times \end{array}$$

(vii)
$$\begin{array}{r} 3 \overline{)4320} \text{ (1440)} \\ \underline{3} \\ \underline{13} \\ \underline{12} \\ \underline{12} \\ \underline{12} \\ \times \end{array}$$

(iii) 2800

(ii)
$$\begin{array}{r} 8 \overline{)2576} \text{ (322)} \\ \underline{24} \\ \times 17 \\ \underline{16} \\ \underline{16} \\ \underline{16} \\ \times \end{array}$$

(iv)
$$\begin{array}{r} 15 \overline{)5280} \text{ (352)} \\ \underline{45} \\ \times 78 \\ \underline{75} \\ \underline{30} \\ \underline{30} \\ \times \end{array}$$

(vi)
$$\begin{array}{r} 21 \overline{)9576} \text{ (456)} \\ \underline{84} \\ \times 117 \\ \underline{105} \\ \underline{126} \\ \underline{126} \\ \times \end{array}$$

(viii)
$$\begin{array}{r} 17 \overline{)4913} \text{ (289)} \\ \underline{34} \\ \underline{151} \\ \underline{136} \\ \underline{153} \\ \underline{153} \\ \times \end{array}$$

8. (i) 161 (ii) 108

(v) 113 (vi) 100

10. (i) (b) (ii) (c)

11. (i) 16050 (ii) 8

(v) 1000 (vi) 9

(ix) 1883, 3 (x) 364

(xiii) 24 (xiv) 100

(iii) 103

(iv) 333

(iii) (b)

(iv) (c)

(iii) 9

(iv) 285

(vii) 26610

(viii) 7500, 50

(xi) 0

(xii) 528

(xv) 824

(xvi) 619

12. (i) – (ii) $\div$ (iii) $\div$
 (iv) $\times$ (v) $\div$ (vi) $\times$
13. (i) $a = 61$, $b = 58$, $c = 31$, $d = 207$, $e = 125$, $f = 156$
 (ii) $a = 21$, $b = 84$, $c = 98$, $d = 63$, $e = 119$, $f = 91$
 (iii) $a = 185$, $b = 312$, $c = 246$, $d = 83$, $e = 126$, $f = 107$
 (iv) $a = 704$, $b = 107$, $c = 108$, $d = 109$, $e = 55$, $f = 102$
14. (i) $>$ (ii) $<$ (iii) $=$ (iv) $>$
15. (i) $a = 225$, $b = 900$, $c = 450$, $d = 75$, $e = 1800$, $f = 225$
 (ii) $a = 112$, $b = 112$, $c = 8$, $d = 28$, $e = 224$, $f = 2240$
16. (a) In the month of October he can read $= 31 \times 150 = 4650$ pages
 (b) Second number $= 22512 \div 112 = 11$
 (c) Total money Kamini will earn in 5 months $= 5 \times 30 \times 1105 = ₹ 165750$
 (d) Number of cartons $= 1656000 \div 576 = 2875$
 (e) Number of cartons $= 23688 \div 24 = 987$
 (f) Fees for 1 month $= 3948 \div 7 = ₹ 564$
 Fees for 12 months $= 564 \times 12 = ₹ 6768$
 (g) Cost of one bicycle $= 123125 \div 125 = ₹ 985$
 (h) Second number $= 30225 \div 155 = 195$
17. Total number of soldie $= 175 \times 17 = 2975$
 Number of camps $= 2975 \div 25 = 119$
18. Number of students in 2nd Hostel $= 275 \div 5 = 55$
 Number of students in 3rd Hostel $= 275 \div 5 = 55$
 According to question,
 Number of student in first Hostel $= 275 - 5 = 270$
 Number of students in 2nd Hostel $= 55 + 15 = 70$
 Number of students in 3rd Hostel $= 55$

1. Mail box
2. (i) volume (ii) 36 cm^3 (iii) 343 cm^3 (iv) 3000 cm^3
3. (a) 5 (b) 24 (c) 3 (d) 12
(e) 12 (f) 72
4. (i) 7 (ii) 3 (iii) 40 mL (iv) 80 mL
5. (i) 40 cm^3 (ii) 36 cm^3 (iii) 343 cm^3 (iv) 3000 cm^3
6. (b) 560 cm^3 (c) 56 cm
7. (i) (a) 2250 (b) 1500 (c) 1125 (d) 750
(ii) For 1 person in 1 day onion = 20 g
For 10 persons in 15 day = $20 \times 10 \times 15 = 3000 \text{ g}$ or 3 kg.
(iii) 9560 g or 9.560 kg
8. (ii) 80 g (iii) 150 g (iv) 150 g (v) 90 g
9. (i) 720 g (ii) 1260 g (iii) 1440 g (iv) 3402 g
10. (i) ₹ 5 coins bag
(ii) ₹ 10 coins bag
11. (i) 4000 (ii) 8050 (iii) 20100 (iv) approx. 12587
12. (i) False (ii) True (iii) True (iv) False
13. (i) Number of boxes = $(24 \text{ cm} \times 20 \text{ cm} \times 36 \text{ cm}) \div (4 \text{ cm} \times 2 \text{ cm} \times 6 \text{ cm}) = 360$
(ii) Volume = $20 \text{ cm} \times 8 \text{ cm} \times 4 \text{ cm} = 640 \text{ cm}^3$
(iii) For 31 days farmer need = $31 \times 9 = 279 \text{ kg}$
(iv) Number of tiles = $(10 \times 6 \times 200) \div (30 \times 5 \times 8) = 10$
(v) Number of soap cake = $(20 \text{ cm} \times 80 \text{ cm} \times 60 \text{ cm}) \div (5 \text{ cm} \times 4 \text{ cm} \times 3 \text{ cm}) = 1600$
(vi) Weight of Gayatri's cat = $5 \times 4 \text{ kg} = 20 \text{ kg}$
(vii) Weight of astronaut on Moon = $72 \div 6 = 12 \text{ kg}$.