

I. Choose the correct answer:

(15x1=15)

- If the cost of 8 apples is Rs.56 then cost of 12 apples is _____
a) Rs.84 b) Rs.48 c) Rs.10 d) Rs.32
- If 7m of cloth cost Rs.294, then the cost of 5m cloth is _____
a) Rs.100 b) Rs.210 c) Rs.200 d) Rs.100
- If 40 workers can do a project work in 8 days. Then _____workers can do it in 4 days.
a) 80 b) 40 c) 36 d) 20
- 12 cows can graze a field a field for 10 days. 20 cows can graze the same field for _____days.
a) 15 b) 18 c) 6 d) 8
- The perimeter of a parallelogram whose adjacent sides are 6cm and 5cm is _____
a)12cm b)10cm c) 24cm d) 22cm
- Area of parallelogram is _____
a) $b \times h$ sq.units b) $l \times b$ sq.units
c) $\frac{1}{2} \times b \times h$ sq.units d) $(l + b)$ sq.units
- Perimeter of square is _____units.
a) 4a b) 2a c) 3a d) a^2
- Area a of rhombus is _____ sq.units
a) $\frac{1}{2} \times d_1 \times d_2$ b) $\frac{1}{2} \times (d_1 + d_2)$ c) $d_1 \times d_2$ d) $\frac{1}{2} \times d_1$
- The area of rhombus whose diagonal are 19cm and 16cm is _____
a) 160sq.cm b) 100sq.cm c) 152sq.cm d) 140sq.cm
- The angle between the diagonals of a rhombus is _____
a) 120° b) 180° c) 90° d) 100°
- Area of trapezium is _____sq.units.
a) $\frac{1}{2} \times h(a+b)$ b) $\frac{1}{2} \times b \times h$ c) $l \times b$ d) $\frac{1}{2} \times d_1 \times d_2$
- The area of trapezium, if the parallel sides are measuring 8cm and 10cm and the height 5cm is _____
a) 45sq.cm b) 40sq.cm c) 18sq.cm d) 50sq.cm

13. The area of rhombus with side 4cm and height 3cm is _____

a) 7sq.cm b) 24sq.cm c) 12sq.cm d)10sq.cm

14. The area of parallelogram whose base is 18cm and height is 5cm _____

a) $80cm^2$ b) $89cm^2$ c) $90cm^2$ d) $60cm^2$

15. If 6 children shared 24 pencils equally. Then how many pencils are required for 18 children _____

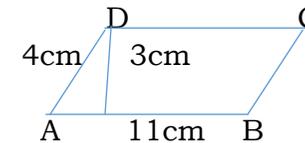
a) 72 pencils b) 82 pencils c) 40 pencils d) 60 pencils

II. Answer any 10 of the following:

(10x3=30)

(Question no: 28 is compulsory) either "a" or "b"

16. Find the area of the following parallelogram.



17. Find the height of the Parallelogram whose area is 56sq.cm and base is 8cm.

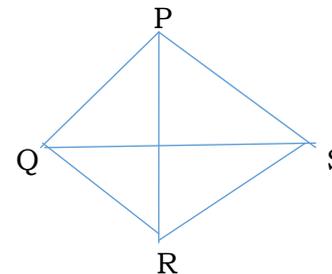
18. Suresh won a Parallelogram shaped trophy in a state level Chess tournament. He knows that the area of the trophy is 735sq.cm and its base is 21cm.

What is the height of that trophy?

19. Find the area of the rhombus whose side is 17cm and height is 8cm.

20. Find the height of the rhombus whose area 96sq.m & side 24m.

21. Find the area of rhombus PQRS



22. Find the area of trapezium whose height is 10m and the parallel sides are 12m and 20m.
23. Find the height of the trapezium whose area is 492 sq.cm and parallel sides are 13cm and 28cm.
24. A dozen bananas cost Rs.20. What is the price of 48 bananas?
25. If 30 men can reap a field in 15 days, then in how many days can 20 men reap the same field? (using unitary method).
26. 6 pumps are required to fill a water sump in 1hr 30 minutes. What will be the time taken to fill the sump if one pump is switched off?
27. A toy company requires 36 machines to produce car toys in 54 days. How many machine would be required to produce the same number of car toy in 81 days?
28. a) 60 workers can spin a bale of cotton in 7 days. In how many days will 42 worker spin it?
(or)
b) Find the height “h” of the Parallelogram whose area and base are 368sq.cm and 23cm respectively.

III. Answer any 6 of the following :- (6x5=30)

(Question no: 37 is compulsory) either “a” or “b”

29. The sunshade of a window is in the form of isosceles trapezium whose parallel sides are 81cm and 64cm and the distance between them is 6cm. Find the cost of painting the surface at the rate of Rs. 2 per sq.cm.
30. The area of a rhombus is 100 sq.cm and length of one of its diagonals is 8cm. Find the length of the other diagonal.

31. A ground is in the shape of Parallelogram. The height of the Parallelogram is 14m and the corresponding base is 8m longer than its height. Find the cost of levelling the ground at the rate of Rs.15 per sq.m.
32. Find the base of the Parallelogram whose height is 17mm and area is 221 sq.mm.
33. A motorbike requires 2 litres of petrol to cover 100 kilometers. How many litres of petrol will be required to cover 250 kilometers (using unitary method).
34. A postman can sort out 738 letters in 6 hours. How many letters can be sorted in 9 hours?
35. Forty students stay in a hostel. They had food stock for 30 days. If the students are doubled then for how many lays the stock will last?
36. Match the following :-

(i) Area of trapezium	-	$\frac{x_1}{y_1} = \frac{x_2}{y_2}$
(ii) Area of rectangle	-	$b \times h \text{ sq. units}$
(iii) Area of rhombus	-	$\frac{1}{2} \times h(a+b) \text{ sq. units}$
(iv) Area of Parallelogram	-	$l \times b \text{ sq. units}$
(v) Direct Variation	-	$\frac{1}{2} \times d_1 \times d_2 \text{ sq. units}$
37. a) If the area of the rhombus is 60sq.cm and one of the diagonals is 8cm, find the length of the other diagonal.
(or)
b) Anbu bought 2 notebooks for Rs.24. How much money will be needed to buy 9 such note book (using unitary method).