

TERM 2
Model question 1 T2
7th Standard

Maths

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 01:30:00 Hrs

Total Marks : 50

Part-A

10 x 1 = 10

- 1) If the cost of 8 kgs of rice is Rs.160, then the cost of 18 kgs of rice is
(a) Rs.480 (b) Rs.180 (c) Rs.360 (d) Rs.1280
- 2) If the cost of 7 mangoes is Rs.35, then the cost of 15 mangoes is
(a) Rs.75 (b) Rs.25 (c) Rs.35 (d) Rs.50
- 3) A train covers a distance of 195 km in 3 hrs. At the same speed, the distance travelled in 5 hours is
(a) 195 km. (b) 325 km. (c) 390 km. (d) 975 km.
- 4) If 8 workers can complete a work in 24 days, then 24 workers can complete the same work in
(a) 8 days (b) 16 days (c) 12 days (d) 24 days
- 5) If 18 men can do a work in 20 days, then 24 men can do this work in
(a) 20 days (b) 22 days (c) 21 days (d) 15 days
- 6) The area of a rhombus
(a) $d_1 \times d_2$ (b) $\frac{3}{4}(d_1 \times d_2)$ (c) $\frac{1}{2}(d_1 \times d_2)$ (d) $\frac{1}{4}(d_1 \times d_2)$
- 7) The diagonals of a rhombus bisect each other at
(a) 30° (b) 45° (c) 60° (d) 90°
- 8) The area of a rhombus whose diagonals are 10 cm and 12 cm is
(a) 30 cm^2 (b) 60 cm^2 (c) 120 cm^2 (d) 240 cm^2
- 9) The height of a parallelogram whose area is 300 cm^2 and base 15 cm is
(a) 10 cm (b) 15 cm (c) 20 cm (d) 30 cm
- 10) The area of a parallelogram whose base is 20 cm and height is 30 cm is
(a) 300 cm^2 (b) 400 cm^2 (c) 500 cm^2 (d) 600 cm^2

Part-B

8 x 1 = 8

- 11) The comparison of two quantities of the same kind by means of division is termed as _____.
- 12) The two quantities to be compared are called the _____ of the ratio.
- 13) The first term of the ratio is called the _____ and the second term is called the _____.
- 14) In ratio, only quantities in the _____ units can be compared.
- 15) If the terms of the ratio have common factors, we can reduce it to its lowest terms by cancelling the _____.
- 16) When both the terms of a ratio are multiplied or divided by the same number (other than zero) the ratio remains _____. The obtained ratios are _____.
- 17) Equality of two ratios is called a _____. If a,b;c,d are in proportion, then a:b::c:d.
- 18) In a proportion, the product of extremes=_____.

Part-C

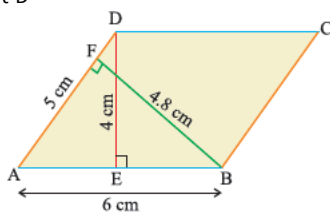
2 x 1 = 2

- 19) In a ratio the order of the terms is very important.
(a) True (b) False
- 20) Ratios are mere numbers. Hence units are not needed.
(a) True (b) False

Part-D

9 x 2 = 18

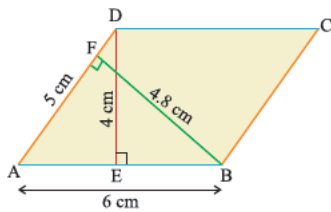
21)



Using the data given in the figure

find the area of the parallelogram with base AB

22)

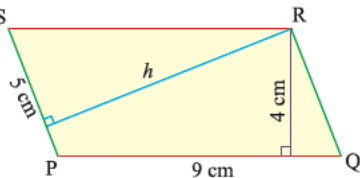


Using the data given in the figure

find the area of the parallelogram with base AD

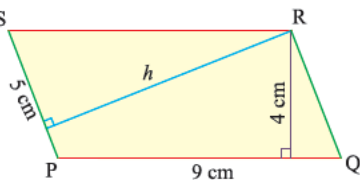
- 23) Find the area of a parallelogram whose base is 9 cm and the altitude (height) is 5 cm.
- 24) Find the height of a parallelogram whose area is 480 cm^2 and base is 24 cm
- 25) Area of a rhombus is 150 sq. cm. One of its diagonal is 20 cm. Find the length of the other diagonal
- 26) A field is in the form of a rhombus. The diagonals of the fields are 50 m and 60 m. Find the cost of levelling it at the rate of Rs 2 per sq. m.
- 27) The area of the parallelogram is 56 cm^2 . Find the base if its height is 7 cm.

28)



Two sides of the parallelogram PQRS are 9 cm and 5 cm. The height corresponding to the base PQ is 4 cm (see figure). Find area of the parallelogram

29)



Two sides of the parallelogram PQRS are 9 cm and 5 cm. The height corresponding to the base PQ is 4 cm (see figure). Find the height corresponding to the base PS

Part-E

4 x 3 = 12

- 30) Find the base of the triangle whose area and height are given below:
area = 82.5 m^2 , height = 10 m
- 31) Find the height of the triangle whose area and the base are given below:
area = 180 m^2 , base = 20 m
- 32) Find the height of the triangle whose area and the base are given below:
area = 62.5 m^2 , base = 25 m
- 33) Find the height of the triangle whose area and the base are given below:
area = 20 cm^2 , base = 5 cm
