TERM 2

Model question 2 T2

7th Standard

Maths

Reg.No. : | | | | | | |

I.Answer all the questions.

II.Use blue pen only.

Time : 02:30:00 Hrs Total Marks : 75

Part-A 5 x 1 = 5

1) The base of a parallelogram whose area is 800 cm^2 and the height 20 cm is

(a) 20 cm (b) 30 cm (c) 40 cm (d) 50 cm

2) If a transversal intersect two lines, the number of angles formed are

(a) 4 (b) 6 (c) 8 (d) 12

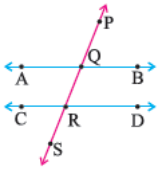
3) If a transversal intersect any two lines the two lines

(a) are parallel (b) are not parallel (c) may or may not be parallel (d) are perpendicular

4) When two parallel lines are cut by a transversal, the sum of the interior angles on the same side of the transversal is

(a) 90^0 (b) 180^0 (c) 270^0 (d) 360^0

5) In the given figure $\angle SRD=110^0$ then the value of $\angle BQP$ will be



(a) 110^0 (b) 100^0 (c) 80^0 (d) 70^0

Part-B 2 x 1 = 2

6) The comparison of two quantities of the same kind by means of division is termed as_____.

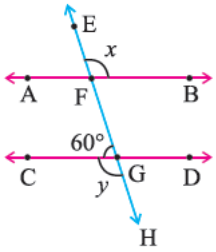
7) The two quantities to be compared are called the _____of the ratio.

Part-C 7 x 2 = 14

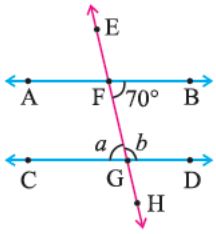
8) Find the area of a rhombus whose side is 15 cm and the altitude (height) is 10cm

9) A flower garden is in the shape of a rhombus. The length of its diagonals are 18 m and 25 m. Find the area of the flower garden.

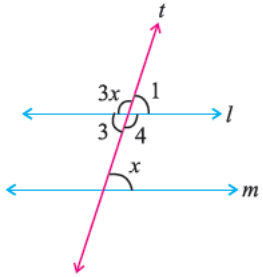
10) In the figure, find ∠CGH and ∠BFE



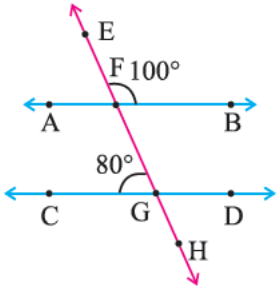
11) In the given figure, find ∠CGF and ∠DGF



12) Find the measure of x in the figure, given l || m



13) In the given figure, ∠BFE = 100° and ∠CGF = 80°. Find



i) ∠EFA

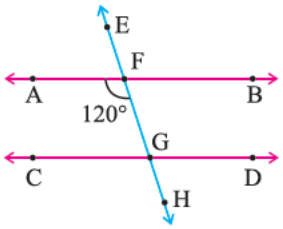
ii) ∠DGF

iii) ∠GFB

iv) ∠AFG

v) ∠HGD.

14) In the figure, AB || CD, ∠AFG = 120° Find



(i) ∠DGF

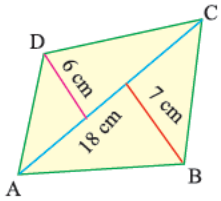
(ii) ∠GFB

(iii) ∠CGF

Part-D 18 x 3 = 54

15) A garden is in the form of a triangle. Its base is 26 m and height is 28 m. Find the cost of levelling the garden at Rs5 per m2.

16) From the figure,
find the area of the quadrilateral ABCD.



17) Find the area of the quadrilateral whose diagonal and heights are:
d = 15 cm, h_1= 5 cm, h_2= 4 cm

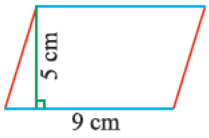
18) Find the area of the quadrilateral whose diagonal and heights are:
d = 7.2cm, h_1= 6cm, h_2=8 cm

19) A diagonal of a quadrilateral is 25 cm, and perpendicular to it from the opposite vertices are 5 cm and 7 cm. Find the area of the quadrilateral

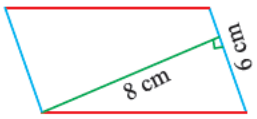
20) The area of a quadrilateral is 54 cm^2. The perpendiculars from two opposite vertices to the diagonal are 4 cm and 5 cm. What is the length of this diagonal?

21) A plot of land is in the form of a quadrilateral, where one of its diagonals is 250 m long. The two vertices on either side of the diagonal are 70 m and 80m away. What is the area of the plot of the land?

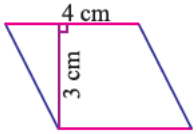
22) Find the area of each of the following parallelograms:



23) Find the area of each of the following parallelograms:



24) Find the area of each of the following parallelograms:



25) Find the area of a rhombus whose diagonals are
15 cm, 12 cm

26) Find the area of a rhombus whose diagonals are
13 cm, 18.2 cm

27) Find the area of a rhombus whose diagonals are
74 cm, 14.5 cm

28) Find the area of a rhombus whose diagonals are
20 cm, 12 cm

29) One side of a rhombus is 8 cm and the altitude (height) is 12 cm. Find the area of the rhombus.

30) Area of a rhombus is 4000 sq. m. The length of one diagonal is100 m. Find the other diagonal.

31) A field is in the form of a rhombus. The diagonals of the field are 70 m and 80 m.
Find the cost of levelling it at the rate of Rs3 per sq. m.

32) Find the area of the parallelogram whose base and height are :
(i) b = 14 cm, h = 18 cm

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