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Model Papers

7th Std – MATHEMATICS

GENERAL ASSESSMENT 2020

MODEL PAPER 1

40 Marks, 90 Minutes

Fill in the Blanks with Suitable Answer

4 x 1 = 4

1. The ratio of 3km to 300m is _____
2. The formula used to find Area of rectangle is _____
3. If m = -2 then the value of 3m – 5 is _____
4. How much is the 15% of 250? _____

Solve the Following

1 x 4 = 4

5. Ratio of Rs 5 to 50 Paise	(i) 500 : 7
6. Ratio of 15kg to 210 gms	(ii) 20 : 1
7. Ratio of 9m to 27cm	(iii) 10 : 1
8. Ratio of 30 days to 36 hours	(iv) 100 : 3

Solve the Following

4 x 1 = 4

9. Find the Sum of 3mn + 2mn + 7mn
10. Convert $\frac{25}{45}$ into its simplest form
11. If radius = 14cm, Find the circumference of the circle
12. Express 256 as Power of 2

Solve the following

10 x 2 = 20

13. Give three examples of shapes with no line of Symmetry
14. Simplify $2^3 \times 2^2 \times 5^2$ and Write answer in Exponential Form
15. Write the number 279404 in expanded form

16. If x = 2 then find the value of x + 7 + 4 (x – 5)
17. Find the area of Circle of radius, r = 5cm
18. Construct a ΔABC, Given that AB = 5cm, BC = 6cm and AC = 7cm
19. Find the sum of $\frac{5}{4} + (\frac{-11}{4})$
20. Draw the number line and represent the rational number $\frac{-5}{8}$
21. The population of a city decreased from 25,000 to 24,500, Find the percentage decreased
22. Find 20 % of 2500

Solve the following

2 x 4 = 8

23. A rectangular park is 45m long and 30m wide, A path 2.5m wide is constructed outside the park, Find the area of Park
24. Construct ΔLMN, right angled at M, given that LN = 5cm and MN = 3cm

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MODEL PAPER 2

40 Marks, 90 Minutes

Fill in the Blanks with Suitable Answer

4 x 1 = 4

1. The ratio of Rs 6 to 60 Paise is _____
2. The formula used to find Area of Parallelogram is _____
3. If x = -3 then the value of 7x + 35 is _____
4. The percent of $\frac{5}{4}$ is _____

Match the Following

1 x 4 = 4

5. Co efficient of x in 4x – 3y	(i) 5
6. Co efficient of y in $yz^2 + 5$	(ii) 10
7. Co efficient of z in xy + 10z	(iii) z^2
8. Co efficient of a in 2b + 5a	(iv) 4

Solve the following

4 x 1 = 4

9. 6 bowls cost Rs 90, what would be the cost of 10 such bowls
10. Find the value of $(-4) \div (\frac{2}{3})$
11. If n = -2, Find the value of $5n^2 + 5n - 2$
12. Express 72 as product of powers of its Prime factors

Solve the following

10 x 2 = 20

13. Arun bought a car for Rs 3,50,000, the next year the price went up to Rs 3,70,000, What was the Percentage of Price Increase?
14. Write four rational numbers equivalent of $\frac{5}{-3}$

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15. Construct a equilateral triangle of side 5.5cm
16. If the circumference of circular sheet is 154m, Find its radius
17. Simplify : 21b – 32 + 7b – 2b
18. Simplify $(6^2 \times 6^4) \div 6^3$
19. Express 3,90,878 in Standard form
20. Write the number of Symmetry in
    a. A Square
    b. An Isosceles triangle
21. The circumference of a circle is 3.14cm, Find its area
22. Find BC, if the area of ΔABC is $36cm^2$ and height AD is 3cm

Solve the following

2 x 4 = 8

23. Anu wants to fence the Garden in front of her house, on three sides with the lengths 20m, 12m and 12m, Find the cost of fencing at the rate of Rs 150 per meter
24. Construct ΔPQR if PQ = 5cm, $\angle PQR = 105^0$ and $\angle QRP = 40^0$

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MODEL PAPER 3

40 Marks, 90 Minutes

Fill in the Blanks with Suitable Answer

4 x 1 = 4

1. If radius is 14cm then its diameter is _____
2. If a = 3 and b = 2 then 7a – 3b = _____
3. The formula used to find the area of triangle _____
4. The Percentage of 0.009 is _____

Match the Following (Lines of Symmetry)

1 x 4 = 4

5. Square	(i) 0
6. Equilateral triangle	(ii) 2
7. Rhombus	(iii) 4
8. Parallelogram	(v) 3

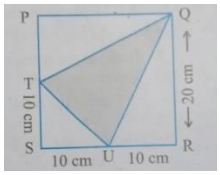
Solve the following

4 x 1 = 4

9. Meeta saves 4000 from her salary, If this is 10% of her salary then what is her salary?
10. Convert $\frac{3}{40}$ into percent
11. Find the value of $\frac{-3}{5} \div 2$
12. Subtract -5y2 from y2

Solve the Following

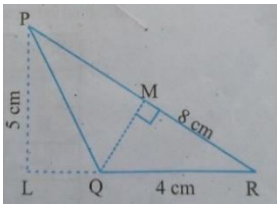
10 x 2 = 20



13. Find the area of Shaded Portion in the following figure
14. Name any two figures that have both line symmetry and rotational symmetry
15. Simplify 2^3 x a^3 x $5a^4$
16. What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$
17. What is circumference of a circular disc of radius 14cm?
18. Draw the number line and represent the rational number $\frac{-7}{4}$
19. Write $\frac{-1}{3}, \frac{-2}{9}, \frac{-4}{3}$
20. Find the product of $\frac{3}{11} \times \frac{2}{5}$
21. A 3m wide path runs outside and around a rectangular park of length 125m and breath 65m. Find the area of the Path
22. Which one is greater 2^3 or 3^2?

Solve the following

2 x 4 = 8



23. In ΔPQR, PR = 8cm, QR = 4cm and PL = 5cm, Find the area of ΔPQR and QM
24. Draw ΔPQR with PQ = 4cm, QR = 3.5cm and PR = 4cm, What type of triangle is this?

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