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V8M

30) Divide: (5y³-25y²+8y) by 5y

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- 31) What is 25% of 30% of 400?
- 32) The price of a rain coat was slashed from Rs. 1,060 to Rs. 901 by a shopkeeper in the rainy season to boost the sales. Find the rate of discount given by him.
- 33) Find the value of x in the following triangle. 9



- 34) Shanthi has 5 chudithar sets and 4 frocks. In how many possible ways, can the wear either a chudithar or a frock?
- 35) From the measures given below, find the area of the sectors. length of the arc = 48m; radius = 10m
- 36) Write in scientific notation: Earth's volume is about 108300000000 cubic kilometers.

VI. Answer any 8 questions:

37) Arrange the following rational numbers in ascending order:

$$\frac{-5}{12}$$
, $\frac{-11}{8}$, $\frac{-15}{24}$, $\frac{-7}{-9}$, $\frac{12}{36}$

38) Simplify:
$$\left[\frac{4}{3} - \left(\frac{-3}{2}\right)\right] + \left[\frac{-5}{3} \div \frac{30}{12}\right] + \left[\frac{-12}{9} \times \frac{-27}{16}\right]$$

- 39) Find the square root by long division method: 418609
- 40) What is the square root of cube root of 46656?
- 41) The radius of a sector is 21 cm and its central angle is 120°. Find (i) the length of the arc (ii) area of the sector (iii) perimeter of sector. ($\pi = 22/7$)
- 42) Find the area of an irregular polygon field whose measures are as given in the figure.



8×5=40

2×8=16

- 43) Multiply $3x^2y$ and $(2x^3y^3-5x^2y+9xy)$
- 44) Divide: $5xy^2 18x^2y^3 + 6xy$ by 6xy
- 45) Akila scored 80% of marks in an examination. If her score was 576 marks then find the maximum marks of the examination.
- 46) Ranjith bought a washing machine for Rs. 16,150 and paid Rs. 1,350 for its transportation. Then he sold it for Rs. 19,250. Find his gain or loss percentage.
- 47) Find the values of x and y in the following figure.



48) A safety locker in a jewel shop requires a 4 digit unique code. The code has the digits from 0 to 9. How many unique codes are possible?

VI. Answer any 2 questions:

49) Construct a quadrilateral MATH with MA = 4 cm, AT = 3.6 cm TH = 4.5 cm, MH = 5 cm and $\angle A = 85^{\circ}$. Also find its area.

(OR)

Construct a trapezium AIMS in which AI is parallel to SM, AI = 6 cm, IM = 5 cm, AM = 9 cm and MS = 6.5 cm. Also find its area.

50) Plot the following points in a graph sheet. A(5, 2), B(-7, -3), C(-2, 4), D(-1, -1), E(0, -5), F(2, 0), G(7, -4), H(-4, 0). (OR)

Draw straight lines by joining the points A(2, 5), B(-5, -2) and M(-5, 4), N(1, -2) also find the point of intersection. Kindly send me your study materials to padasalai.net@gmail.com

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