

OPJINDAL SCHOOL PATRATU

MODEL QUESTION PAPER 2024-25

CLASS VIII

FULL MARKS 80

SUBJECT MATHS

TIME 3 HOURS

ALL QUESTIONS ARE COMPULSORY. ATTEMPT ALL QUESTIONS

SECTION A (MCQ Each of 1 marks)

- Sum of rational number $\frac{5}{7}$ and its reciprocal is
(a) $2\frac{4}{35}$ (b) 0 (c) $\frac{4}{35}$ (d) none of these
- Product of two rational numbers is 1 . If one of them is $\frac{4}{5}$, then other is
(a) $\frac{-4}{5}$ (b) $\frac{-5}{4}$ (c) $\frac{5}{4}$ (d) none of these
- The product of $(x-4)$ and $(2x+3)$ is
(a) $x^2-5x-12$ (b) $2x^2-5x-12$ (c) $x^2 -12x+5$ (d) none of these
- The smallest number by which 192 should be multiplied to make it a perfect cube is
(a) 9 (b) 6 (c) 3 (d) 2
- How many natural numbers lie between 25^2 and 26^2 ?
(a) 49 (b) 50 (c) 51 (d) 52
- Curved surface area of a cylinder is
(a) $2\pi rh$ (b) $3\pi rh$ (c) $2\pi r^2h$ (d) none
- If the sum of three consecutive integers is 51 then the smallest integer is
(a) 16 (b) 17 (c) 18 (d) 19
- When a dice is thrown then the probability of getting even number is
(a) 0 (b) $\frac{1}{2}$ (c) 1 (d) none of these
- The length of the longest rod that can be placed in a room of dimensions $10m \times 10m \times 5m$ is
(a) 15 m (b) 16 m (c) $10\sqrt{5}m$ (d) 12 m
- If each interior angle of a regular polygon is 144° then the number of sides of polygon is
(a) 8 (b) 9 (c) 10 (d) 11
- The sum of all exterior angles of a pentagon is
(a) 180 (b) 360 (c) 590 (d) none of these
- Naman buys a toy for Rs 60 and sells it for Rs 75, his profit % is

29. If Chameli had Rs 600 left after spending 75% of her money, how much did she have in the beginning ?
30. Find the least number which must be added to 5678 so as to get a perfect square number, also obtain its square root ?
31. Parikshit makes a cuboid of plasticine of sides 5 cm ,2 cm,5 cm. How many such cuboids will he need to form a cube ?
32. A road roller takes 750 complete revolutions to move once over to level a road, Find the area of road if the diameter of a road roller is 84 cm and length is 1 m ?

OR The population of a place increased to 54,000 in 2003 at the rate of 5 % per annum , Find the population in 2001 ?

33. Solve by cross multiplication method $\frac{7y+4}{y+2} = \frac{-4}{3}$

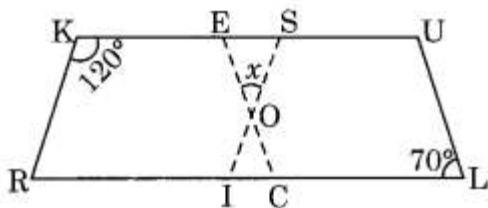
34. In a parallelogram ABCD if $\angle A = 70^\circ$ then find the measure of all other angles ?
35. The price of a TV is Rs 13000. The sales tax charged on it is at the rate of 12%. Find the amount that Vinod will have to pay if he buys it ?
36. Find three rational numbers between $\frac{3}{5}$ and $\frac{3}{4}$?

SECTION D(each of 4 marks)

37. . The area of a trapezium is 34 cm^2 and the length of one of the parallel sides is 10 cm and its height is 4 cm .Find the length of the other side?.
38. The number of students in a hostel, speaking different languages is given below. Display the data in a GRAPH.

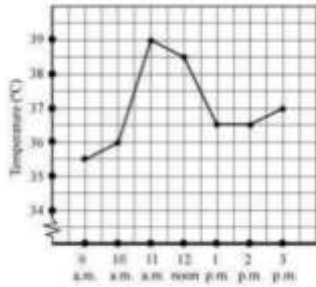
Language	Hindi	English	Marathi	Tamil	Bengali	Total
No. of students	40	12	9	7	4	72

39. Observe the figure carefully and answer the following questions ?



- (1) Name the quadrilateral KURL and KRIS ?
- (2) Find the value of x ?
40. . A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. How much sheet of metal is required ?
41. . If the following graph shows the temperature of a patient in a hospital, recorded every hour.

- (a) What was the patient's temperature at 1 p.m.?
- (b) When was the patient's temperature 38.5°C?
- (c) The patient's temperature was the same two times during the period given. What were these two times?
- (d) What was the temperature at 1.30 p.m? How did you arrive at your answer?
- (e) During which periods did the patient's temperature show an upward trend?



THE END