

.PUSHPA BHARTI PUBLIC SCHOOL  
CLASS-VII<sup>TH</sup> SUB-MATHS  
SAMPLE PAPER

Time=2:30hr

M.M=80

NAME ..... ROLL NO ..... SECTION .....

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(SECTION-A)

Q-01. What is a rational number? Define and give examples.

Q-02. Writ the formula of Heron's formula.

Q-03. Which is greater?

(a)  $3^2$  or  $2^3$

Q-04. Define like and unlike term:-

Q-05. Write the co-efficient of:-

(a)  $X^2$  in  $\frac{-5}{7}x^2y$

Q-06. Subtract:-

(a)  $14x^2$  from  $3x^2$

(SECTION-B)

Q-01. Add the following:-

(a)  $14xy$ ,  $19xy$ ,  $-4xy$

(b)  $3x^2$ ,  $-10x^2$ ,  $4x^2$

Q-02. Find the value of  $z^3 - 3(z-10)$ , if  $z=10$

Q-03. Is  $x=5$  a solution of the equation  $\frac{1}{2}x + \frac{x}{10} = 2$ ?

Q-04. Divide 270 in the ratio:

(a) 1:2:3

(b) 4:5

Q-05. Find the number :

(a) Whose 10% is 24

(b) Whose  $6\frac{1}{6}\%$  is 2

Q-06. Find

(a)  $33\frac{1}{3}\%$  of 456

(b)  $12\frac{1}{2}\%$  of ₹ 24

(SECTION-C)

- Q-01. Two numbers are in the ratio 7:4. If their sum is 55, Find the numbers.
- Q-02. A cow is bought for ₹ 8500 and is sold at a loss of 3 % . Find the selling price of the cow.
- Q-03. Calculate the time in which ₹ 1250 would become ₹ 1375 at 4% rate at interest.
- Q-04. The sum of two consecutive numbers is 175. Find the numbers.
- Q-05. Solve the equation :  $\frac{y}{5} - \frac{y}{6} = \frac{1}{30}$
- Q-06. Simplify  $38 - 2(5 - 8 - 3) \div [2 \{7 + (-3) \times (-4)\}]$
- Q-07. Define Vertically opposite angles.
- Q-08. Find the angles of a triangles which are in the ration 2:3:4
- Q-09. In a  $\triangle PQR$ , if  $\angle P = 30^\circ$  and  $\angle Q = 50^\circ$ , Find the measure of  $\angle R$
- Q-10. How much is  $x^3 - 2x^2 + x + 4$  greater than  $2x^3 + 7x^2 - 5x + 6$

(SECTION-D)

- Q-01. If you add 87 to an unknown numbers, your sum will be 170. What is the unknown number.
- Q-02. The area of the square is  $18050m^2$ . Find the length of the diagonal.
- Q-03. Raghu's rectangular plot measures 400m by 225. How many square meters of land should he buy more to make the area of his field equal to 10 hectare ?
- Q-04. A door is 2.6m by 1.1m. Find the cost of painting both sides of the door at the rate of ₹ 20 Per square metre.
- Q-05. The area of a right triangle whose base is 3cm is  $6cm^2$ . Find the other two sides of the right triangle.
- Q-06. The area of an equilateral triangle is  $\sqrt{3} cm^2$  and the length of each side is 6cm. Find the altitude of the triangle.
- Q-07. A diagonal of a quadrilateral is 25cm. Two perpendiculars drawn to it from opposite vertices are 10.2cm and 11.8cm. Find the area of the quadrilateral.
- Q-08. The sides of a parallelogram are 4cm and 3cm. If the altitude corresponding to the base 4cm is 1.8cm, What will be the length of the altitude corresponding to the base 3cm ?