

SWAMINARAYAN VIDYAPITH

(Model Paper)

Maths

STD:- IX

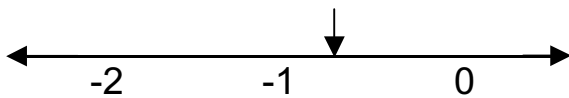
MARKS: 50

Name: _____

Application Form No: _____

Q-1 Choose the correct alternative from the given (10)

(1) Which rational number does the pointer on the number line show?



(a) -1.2 (b) -0.4 (c) 1.2 (d) -0.8

(2) The circumference of a circle is _____ to diameter.

(a) directly proportional (b) Inversely proportional (c) equal to (d) None of these

(3) For $2:3 :: x:5$ to be in proportion, the value of 'x' should be

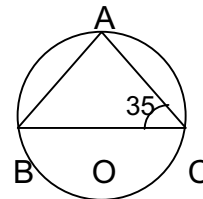
(a) 4 (b) 3 (c) x (d) $\frac{10}{3}$

(4) Which set of numbers among the following represent the sides of right angle triangle?

(a) (8, 4, 15) (b) (6, 8, 10) (c) (4, 5, 6) (d) ($\sqrt{2}$, $\sqrt{3}$, $\sqrt{4}$)

(5) Measure of angle A = _____

(a) 90 (b) 45 (c) 55 (d) 35



(6) $\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{9} =$ _____

(a) $\frac{10}{18}$ (b) $\frac{25}{85}$ (c) $\frac{85}{36}$ (d) $\frac{75}{36}$

(7) 15 % of certain quantity is 75. The quantity is

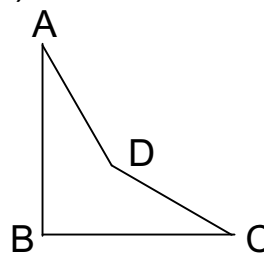
(a) 600 (b) 500 (c) 400 (d) 300

(8) The rainfall at a place from 1st June to 6th June are 3.1 cm., 2.3 cm., 4.7 cm., 3.6 cm., 1.9 cm., & 2.4 cm. The average rainfall per day is _____ cm.

(a) 3.5 cm (b) 2.57 cm (c) 4.7 cm (d) 3.0 cm

(9) ABCD is a

(a) Convex quadrilateral
(b) Concave quadrilateral
(c) Cyclic quadrilateral
(d) It is not a quadrilateral



(10) If $a + 2b = 10$ and $ab = 15$, then the value of $a^3 + 8b^3$ is _____

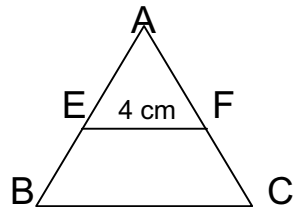
(a) 100 (b) 200 (c) 50 (d) 150

Q-2 Do as directed**(20)**

(1) Father is twice as old as his son. Ten years ago, father was thrice as old as his son .Find out the present age of son.

(2) $[3 \times 10^{-6}] \div [6 \times 10^{-6}]$ in scientific form can be written as

(3) E and F are mid points of AB & AC. Find measure of BC.



(4) If $4^{3x} = 8^{x+4}$ then find the value of x

(5) Area of a rectangle and area of square are equal. Length of the rectangle is 9 cm. And its breadth is 4 cm. Find length of the square.

(6) Factorize $x^4 - 16$

(7) What number should be multiplied to 800 to make it a perfect cube

(8) Write the decimal form of

$$3(10^2) + 5\left(\frac{1}{10000}\right)$$

(9) Solve the following equation.

$$\left(\frac{X-2}{4}\right) + \frac{1}{3} = x - \left(\frac{2X-1}{3}\right)$$

(10) Find the value of

$$\sqrt{1^3+2^3+3^3+4^3+5^3}$$

Q-3 Do as directed.**(20)**

(1) Five times a number increased by 7 is 27; what is the number?

(2) Find the missing number from the third square?

3	6
18	2

4	20
60	5

2	?
42	7

(3) Divide $9X^3 + 3X^2 + 7 - 5X$ by $3X - 1$

(4) Find the compound interest when principal = Rs. 3000, rate =5% per annum and time = 2 years.

(5) Ankur invested Rs.4444 in the shares of face value Rs. 100 each of a company. At the end of the year, the company declared dividend at 15% which gave Ankur an income of Rs. 600. At what price was the share quoted if the brokerage was 1%