Class 9th

Concept Based Questions

Q.1 : Which of the following statements is true?

A. Every irrational number can be represented as a fraction.

B. Every irrational number can be represented with the help of decimals.

C. Every rational number can be represented as a terminating decimal.

D. Every rational number can be represented as an integer.

Q.2 : A soap manufacturer makes fragrant and non-fragrant liquid soaps. The liquid soaps are illed in plastic bottles and packed in equal size cartons for transportation. Each carton contains 50 bottles. The mass of a full bottle of soap is 220 gm and that of a half-illed bottle is 120 gm. What will be the mass (gm) of the empty bottle?

A. 10 gm

- B. 20 gm
- C. 100 gm
- D. 110 gm

Q.3 : Which of the following is not true?

- A. A line has one dimension.
- B. A plane has two dimensions.
- C. A circle can be drawn with any radius and at any point.
- D. Two distinct lines can pass through a point in the same direction.

Q.4 : Balan says, 'The measure of all right angles cannot be equal as their arms can be of different lengths.' Why is Balan's statement not true?

- A. The measure of an angle depends upon its orientation.
- B. The measure of an angle depends upon the instrument used to measure it.
- C. The measure of an angle depends on the length of its angle arms.
- D. The measure of an angle depends upon the rotation of one arm on another.

Q.5 : Shyam made a die using a cuboid-shaped eraser. He painted one face of the die with the number 2, two faces with the number 1 and three faces with the number 4. Shyam throws the die. What is the probability of getting a 1?

A. 1/2

B. 1/3 C. 1/4 D. 1/6

Q.6 : A triangle whose base angles measure 70° and perimeter is 28 cm is drawn. Which of the following options shows the side lengths of the triangle formed?

A. 7cm, 14cm and 7cm

- B. 8cm, 12cm and 8cm
- C. 9cm, 10cm and 9cm
- D. 10cm, 8cm and 10cm

Q.7 : TAB is a straight line. C is the mid-point of AB. D is the mid-point of AC. Which of the following shows the relation between the line segments?

A. AD = 1/2AB

- B. AD = 1/2CB
- C. AD = 2AC
- $\mathsf{D}. \mathsf{A}\mathsf{D} = \mathsf{2}\mathsf{D}\mathsf{C}$

Q.8 : The equation of a line is ax+by+c=0.

What conditions ensure that the distance of the line from an axis is constant?

- A. c=0 and a,b≠0
- B. c<0 and a,b≠0
- C. c,b≠0 and a=1
- D. c, b≠0 and a=0

Q.9 : Shyam made a die using a cuboid-shaped eraser. He painted one face of the die with the number 2, two faces with the number 1 and three faces with the number 4. Shyam throws the die. What is the probability of getting a face showing an even number?

A. 1/2

B. 1/3

C. 1/6

D. 2/3

Q.10 : he area of a triangle and a parallelogram are equal. Which of the following statements is true for them?

A. The base length and the altitude of the triangle and the parallelogram are the same.

B. Both the triangle and the parallelogram lie between the same set of parallel lines and their bases are the same.

C. The base length and the corresponding altitude of the triangle are two times the base length and the corresponding altitude of the parallelogram.

D. Either the corresponding base length or the corresponding altitude of the triangle is the double of the parallelogram's base length or altitude.

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