

MCS for Class-10 Maths

1) which of the following is a rational number?

- a) $\sqrt{2}$ b) π c) $3/4$ d) $2\sqrt{3}$

2) What is the HCF of 24 and 30?

- a) 2 b) 6 c) 12 d) 18

3) If $x + 1/x = 3$, what is the value of $x^2 + 1/x^2$?

- a) 5 b) 7 c) 9 d) 11

4) Which of the following is a quadratic equation?

- a) $x^2 + 3x - 4 = 0$ b) $x^3 + 2x^2 - 5x + 1 = 0$ c) $x^4 - 2x^3 + 3x^2 + x + 1 = 0$

d) $x + 1 = 0$

5) What is the sum of interior angles of a triangle?

- a) 180° b) 270° c) 360° d) 450°

6) What is the formula for the area of a circle?

- a) πr^2 b) $2\pi r$ c) πd d) $2\pi d$

7) What is the value of $\sin 30^\circ$?

- a) $1/2$ b) $1/\sqrt{3}$ c) $\sqrt{3}/2$ d) $2/\sqrt{3}$

8) What is the formula for the area of a triangle using trigonometry?

- a) $(1/2)ab \sin C$ b) $(1/2)ab \cos C$ c) $(1/2)ab \tan C$ d) $(1/2)ab \csc C$

9) What is the probability of an impossible event?

- a) 0 b) 1 c) $1/2$ d) $2/3$

10) What is the value of x in the equation $2x + 5 = 11$?

- a) 2 b) 3 c) 4 d) 5