SAMPLE PAPER MATHS (CLASS 9)

Q1 If 4^{2x} = 4^{-6} then what is value of X?
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- a) 1
- b) -1
- c) 2
- d) -2

ANSWER - (c)

Q2 Hero's is the formula used to measure _____ of the triangle?

- a) Area
- b) Interior angle
- c) Exterior angle
- d) Sides

ANSWER - (a)

Q3 The set {x: x is an odd number between 10 and 18}

- a) {11, 12, 13, 15, 17}
- b) {12, 16, 15, 13}
- c) {11, 13,15, 17}
- d) {12, 14, 1, 18}

ANSWER-(c)

Q4 There are two points A and B indicated on the wall. Point is at height of 2m above the ground of and point B is 4m vertically above the point A. at the certain instant, the angles of elevation of a kite from these points are observed to be 60 and 30, respectively. Find the height of the kite above the ground.

- a) 2m
- b) 4m
- c) 8m
- d) 16m

ANSWER-(c)

Q5 The frequency distribution of a discrete variable X with one missing frequency f is given below:

х	1	2	3	4
Frequency	2	3	F	5

If the arithmetic mean of X is 29/8, then find value of missing frequency:

- a) 5
- b) 6
- c) 8
- d) 10

ANSWER- (b)

Q6 The value of the expression 3(sin Θ - cos Θ) ⁴ + 6(sin Θ + cos Θ) ² + 4(sin ⁶ Θ + cos ⁶ Θ) is
a) 11 b) 12 c) 13 d) 0
ANSWER(c)
Q7 A toothed wheel of diameter 50 cm is attached to a smaller wheel of diameter 30 cm. How many revolutions will the smaller wheel make when the larger one makes 15 revolutions?
a) 18b) 20c) 25d) 30
ANSWER- (c)
Q8 If the equation k $(6x^2+3)+rx+2x^2-1=0$ and 6k $(2x^2+1)+px+4x^2-2=0$ have both roots common, then the value of $(2r-p)$ is
a) 0 b) ½ c) 1 d) None of these
ANSWER- (a)
Q9 Let A and B be two finite disjoint sets such that $n(A \cup B)$ = 475 and $n(A)$ = 435, then $n(B)$ is
a) 75b) 35c) 900d) 40
ANSWER-(d)
Q10 Let P(n) be a statement and let P(n) => P(n+1) for all-natural numbers n, then P(n) is true for
 a) All n>m b) All n>1 c) Nothing can be used d) All n
ANSWER(c)