

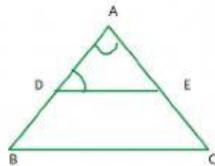
KENDRIYA VIDYALAYA -MISSAMARI

HALF YEARLY EXAMINATION-2020-21

MATHEMATICS- CLASS: X(SYLLABUS: 1 TO 8 CHAPTERS)

TEACHER: RAVI KUMAR KOLLI, PGT-MATHEMATICS

Answer all the questions. Each question carries one mark.

1. Given that HCF (96,404) is 4, then the LCM (96,404) is.....
2. If $x = 2 \sin^2 \theta$ and $y = 2 \cos^2 \theta + 1$, then $x + y =$
3. If a and b are co-prime numbers, then the HCF (a, b) is.....
4. In the given fig. $DE \parallel BC$, $\angle ADE = 70^\circ$
and $\angle BAC = 50^\circ$, then angle $\angle BCA =$ degrees.

5. A tower stands vertically on the ground. From a point on the ground, which is 15m away from the foot of the tower, the angle of elevation of the top of the tower is found to be 60° . Then the height of the tower is $k\sqrt{3} m$, then $k=$
6. The decimal representation of $\frac{14587}{2^1 \times 5^4}$ will terminate afternumber of decimal places.
7. If the sum of the zeroes of the quadratic polynomial $3x^2 - kx + 6$ is 3, then the value of k is.....
8. In an Arithmetic Progression, if $d = -4$, $n = 7$, $a_n = 4$, then $a =$
9. If two tangents are inclined at 60° are drawn to a circle of radius 3cm then the length of each tangent is $a\sqrt{a}$ cm, then $a =$
10. In the ΔABC , D and E are points on side AB and AC respectively such that $DE \parallel BC$. If $AE = 2\text{cm}$, $AD = 3\text{cm}$ and $BD = 4.5\text{cm}$, then $CE =$

