

## Maths - 10th Class Mathematics English Medium Short Question Preparations

Q1. What is the product of three cube rotos of unity?
Ans 1: The product of three cube roots of unity is 1.
Q2. Write three properties of mean.
Ans 1:
Q3. Prove that the product of three cube roots of unity is 1.
Ans 1:
Q4. Define continued proportional
Ans 1: If three quantities a, b and c are related as a:b::b:c where a is first, b is mean and c is third continued proportion.
Q5. What is incircle ?
Ans 1: A circle which touches the three sides of a triangle internally is known as incentre.
Q6. Define theorem of dividendo ?
<b>Ans 1:</b> if a : b = c : d, then
a - b : b = c - d : d a : a - b = c : c - d is called the theorem of dividendo.
Q7. What is Range ?
Ans 1:
Q8. Define Median.
Ans 1: Median is the measure which determines the middle most observation in a data set. It divides the data set into equal parts.

<b>Ans 1:</b> An angle of 360° denotes complete circle or one revolution.
Q10. What is theorem of componendo - dividendo ?
Ans 1: If a:b=c:d then a+b:a-b=c+d:c-d a-b:a+b=c-d:c+d
Q11. Define projection.
Ans 1: The projection of a given point on a given, straight line is the foot of the drawn from the point on the given straight line. If PM is drawn from the given pt. P to the given line AB, M is the projection of P on AB.
Q12. Solve by using quadratic formula $3x^2 + 8x + 2 = 0$
Ans 1:
Q13. If the value of k is -2 and -1, then what is the nature of the roots?  Ans 1: If the value of k is -2 and -1, then the roots will be equal.
Q14.
Ans 1:
Q15. On which value, the nature of roots depends ?
Ans 1:
Q16. What is antecedent ?
Ans 1: In ratio a : b, the first term a is called antecedent.
Q17. Define surjective function.
Ans 1:
Q18. Define segment of a circle.
Ans 1: A part of the circle bounded by an arc and a chord is called segment of a circle.

## Q19. Define vertex.

Ans 1: The common end point of arms that form an angle is called vertex.

## Q20. Define fourth proportional.

**Ans 1:** In four quantities a, b, c and d are related as a : b :: c : d then d is called the fourth proportional.