

**KENDRIYA VIDYALAYA GANNIPUR MUZAFFARPUR**

**AUTUMN BREAK-2021**

**CLASS-7A. SUBJECT-MATHEMATICS.**

Q(1) A plane is flying at the height of 5000 m above the sea level . At a particular point it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?

Q(2) Write a pair of integers whose sum gives (a) a negative integer, (b) zero, (c) a positive integer.

Q(3) A certain freezing process requires that room temperature be lowered from  $40^{\circ}\text{C}$  at the rate of  $5^{\circ}\text{C}$  every hour. What will be the room temperature 10 hours after the process begins?

Q(4) Lipika reads a book for  $1\frac{3}{4}$  hours everyday. She reads the entire book in 6 days. How many hours in all were required by her to read the book?

Q(5) Find the area of rectangle whose length is 5.7 cm and breadth is 3 cm.

Q(6) Find the mean of first ten whole numbers.

Q(7) Find the mode and median of the data:- 13,16,12,14,19,12,14,13 14.

Q(8) A coin is flipped to decide which team starts the game. What is the probability that your team will start?

Q(9) Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's age. What is Laxmi's age?

Q(10) Find the angle which is equal to its complement.

Q(11) Find the angle which is equal to its supplement.

Q(12) Verify by drawing a diagram if the median and altitude of an isosceles triangle can be same.

Q(13) The two interior opposite angles of an exterior angle of a triangle are  $60^{\circ}$  and  $80^{\circ}$  . Find the major of the exterior angle.

Q(14) One of the angles of a triangle is  $80^{\circ}$  and the other two angles are equal. Find the measure of each of the equal angles.

Q(15) Define following:-

(a)SSS congruence criterion (b)SAS congruence criterion (c)ASA congruence criterion (d)RHS congruence criterion.

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