

Holiday Homework

Class : VII

Subject: Mathematics

Answer the following:

- Q.1. A die was thrown 15 times and the outcomes recorded were 5,3,4,3,2,1,6,2,3,4,4,2,1,6,6 . Find the mean, median and mode of the data.
- Q.2. The letters written on paper slips of the word MEDIAN and put in a bag. If one slip is drawn randomly, What is the probability that it bears the letter D?
- Q.3. Write a pair of integers, whose product is -36 and whose difference is 15.
- Q.4. In a test, +3 marks are given for every correct answer and -1 mark are given for every incorrect answer. Sona attempted all the questions and scored +20 marks, though she got 10 correct answers.
(i) How many incorrect answers has she attempted? (ii) How many questions were given in the test?
- Q.5. If a transversal intersects two parallel lines and the difference of two interior angles on the same side of a transversal is 20° , find the angles
- Q.6. Two trees 7m and 4m high stand upright on a ground. If their bases (roots) are 4m apart, Find the distance between the tops
- Q.7. Find the perimeter of rectangle whose length is 60cm and a diagonal is 61cm.
- Q.8. List four rational numbers between $\frac{5}{7}$ and $\frac{7}{8}$.
- Q.9. If $x = \frac{1}{10}$ and $y = \frac{-3}{8}$, then evaluate $x+y$, $x-y$, $x \div y$.
- Q.10. Height of a place A is 1800 m above sea level. Another place B is 700 m below sea level. What is the difference between the levels of these two places ?