

# BRAIN INTERNATIONAL SCHOOL

## MATHEMATICS ASSIGNMENT

## CLASS - VII

JULY 2024

### DATA HANDLING

Q1 Find the range of the following data:

21, 16, 30, 15, 16, 18, 10, 24, 26, 20.

Q2 Find the mode of the following data:

24, 26, 23, 26, 22, 25, 26, 28

Q3 Find the mean of first six multiples of 5.

Q4 Find the median of first 11 whole numbers.

Q5 Find the median of the data: 24, 36, 46, 17, 18, 25, 35

Q6 Find the mode and median of the data: 13, 16, 12, 14, 19, 12, 14, 13, 14

Q7 Find the arithmetic mean of the scores: 8, 6, 10, 12, 1, 3, 4, 4. Find the range of the data

Q8 The mean age of 5 children is 11 years. If the age of four children are 9, 13, 10, 12 years respectively.

Find the age of fifth child.

Q9 The table below gives the number of bikes produced in a factory over a period of one week. Represent the data using a bar graph.

Days	Monday	Tuesday	Wednesday	Thursday	Friday
Number of bikes	400	350	300	250	275

Q10 The following table shows the population of wild animals in two national parks. Represent the data using a suitable double bar graph.

Wild Animals	Monday	Tuesday	Wednesday	Thursday	Friday
Park A	20	16	32	12	24
Park B	16	20	24	8	28

## LINES AND ANGLES

Q1 If a ray stands on a line, then the sum of adjacent angles formed is equal to  $360^\circ$ . State True / False.

Q2 If two lines intersect each other then, the vertically opposite angles are equal. State True / False.

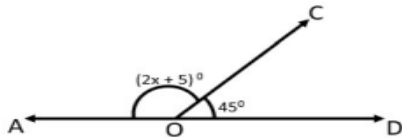
Q3 One of the angles forming a line is a right angle. What will be the other angle?

Q4 The sum of an angle and one third of its supplementary angle is  $90^\circ$ . What is the measure of the angle?

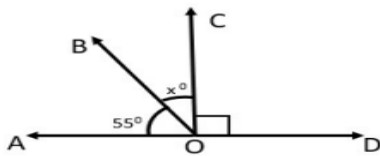
Q5 An angle is thrice of its supplement, what is the measure of the angle?

Q6 Two complementary angles are in the ratio 2 : 3. What is the measure of the smaller angle?

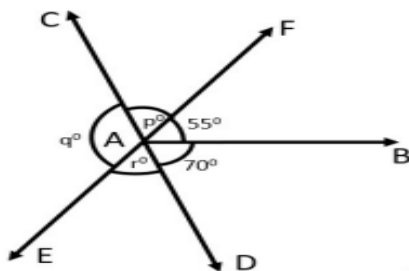
Q7 Find the value of 'x' in the below given diagram.



Q8 Find the value of 'x' in the below given diagram.



Q9 In the below mentioned diagram if AB, CD and EF are straight lines, then  $p + q + r =$  \_\_\_\_\_.



Q10 Identify the pairs of different types of angles from the given figure..

