



STANDARD 7TH: CHAPTER 15

Statistics

Q1. Select all correct options

1. What is the average of the numbers 5, 10, 15, and 20?
 - a. 10
 - b. 12.5
 - c. 15
 - d. 17.5
2. If the average of 4 numbers is 25, and three of the numbers are 20, 30, and 40, what is the fourth number?
 - a. 20
 - b. 25
 - c. 30
 - d. 35
3. The average weight of 5 students is 50 kg. If the weight of one more student is included, the average becomes 52 kg. What is the weight of the 6th student?
 - a. 52 kg
 - b. 54 kg
 - c. 56 kg
 - d. 58 kg
4. The average age of a family of 5 members is 30 years. If the average age of the family increases to 35 years after the birth of a new baby, what is the age of the baby?
 - a. 5 years
 - b. 10 years
 - c. 15 years
 - d. 20 years
5. 5. The average of three numbers is 15. If two of the numbers are 10 and 20, what is the third number?
 - a. 5
 - b. 15
 - c. 25
 - d. 30

6. 6. The average score of a student in 4 tests is 80. If the average score in the first 3 tests is 85 and the fourth test score is 70, what is the total score of the student?
- 280
 - 300
 - 320
 - 340
7. 7. The average temperature of a city over 5 days is 25°C . If the temperatures recorded over 4 days are 20°C , 30°C , 25°C , and 25°C , what is the temperature recorded on the fifth day?
- 20°C
 - 25°C
 - 30°C
 - 35°C
8. 8. The average speed of a car in a journey is 60 km/hr. If the car travels at speeds of 50 km/hr, 70 km/hr, and 60 km/hr for the first, second, and third hours respectively, what is the total distance covered by the car in 3 hours?
- 150 km
 - 160 km
 - 170 km
 - 180 km
9. 9. The average height of a group of 6 students is 150 cm. If the average height of the first 3 students is 140 cm and the average height of the last 3 students is 160 cm, what is the height of the fourth student?
- 140 cm
 - 145 cm
 - 150 cm
 - 155 cm
10. 10. The average of five numbers is 25. If one of the numbers is removed, the average becomes 20. What is the number that was removed?
- 20
 - 25
 - 30
 - 35

Q2. Solve the followings:

1. Sarah has scored the following marks in her last 5 tests: 80, 85, 75, 90, and 95. Calculate the average marks scored by Sarah.
2. The ages of 5 friends are 12, 13, 14, 11, and 10 years. What is the average age of these friends?
3. In a class of 30 students, the average height is 140 cm. If the height of the teacher, who is 160 cm tall, is also included, what is the new average height of the class?
4. The average of 4 numbers is 25. If the first number is 20 and the last number is 30, find the remaining sum of two numbers.
5. A group of friends went for a picnic. The distances they travelled were 10 km, 15 km, 20 km, 25 km, and 30 km. What is the average distance travelled by the group?
6. The ages of 50 students in a school are recorded in years. Draw up a frequency table of this data.
12, 13, 14, 13, 12, 13, 14, 15, 16, 13, 12, 14, 15, 16, 15, 14, 15, 16, 17, 17, 15, 16, 17, 16, 17, 16, 17, 18, 11, 13, 17, 18, 15, 15, 21, 18, 19, 20, 11, 12, 13, 13, 11, 12, 13, 15, 11, 12, 13, 12
7. A bag contains 5 balls of different colours: red, blue, green, yellow, and orange. If the weights of these balls are 10 g, 15 g, 20 g, 25 g, and 30 g respectively, find the average weight of the balls.
8. A class of 30 students was surveyed to find their favourite colours. The results are shown below: Red, Green, Blue, Yellow, Red, Blue, Green, Yellow, Red, Green, Blue, Orange, Red, Blue, Green, Yellow, Red, Blue, Green, Orange, Red, Blue, Green, Yellow, Red, Blue, Green, Yellow, Red, Blue. Draw a pictograph to represent the frequency of each colour chosen as the favourite.
9. A group of 40 students participated in a survey to determine their favorite sports. The results are as follows: Football, Basketball, Soccer, Baseball, Football, Soccer, Basketball, Baseball, Football, Soccer, Basketball, Hockey, Football, Basketball, Soccer, Baseball, Football, Soccer, Basketball, Hockey, Football, Basketball, Soccer, Baseball, Football, Soccer, Basketball, Hockey, Football, Basketball, Soccer, Baseball, Football, Soccer, Basketball, Hockey, Football, Basketball, Soccer, Baseball. Draw a pictograph to represent the frequency of each sport chosen as the favourite by the students.

10. A group of 40 students was surveyed to determine their favourite fruits. The results are as follows: Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana, Orange, Mango, Apple, Banana.