

Dr. M.K.K. ARYA MODEL SCHOOL, PANIPAT

CLASS – VII

MATHS ASSIGNMENT

CH – 3 (DATA HANDLING)

1. The marks scored by 35 students in a mathematics test were as under:
60, 65, 100, 70, 85, 75, 95, 90, 65, 70, 80, 95, 70, 75, 75, 70, 80, 80, 70, 75, 85, 85, 70,
90, 75, 75, 80, 80, 85, 85, 90, 75, 75, 80, 80.
Prepare a frequency distribution table for the above data.

2. Find the mean of each of the following set of numbers:
a) First 7 natural numbers c) First 7 whole numbers
b) First 5 prime numbers d) ₹7, ₹19, ₹31, ₹43, ₹70
3. Find the mean of first ten odd numbers.
4. If the mean of $x, x+2, x+4, x+6, x+8$, is 24, find x .
5. Find the mean of the following frequency distribution:

Weight (kg)	30	31	32	33	34
Number of students	8	10	15	8	9

6. Nisha secured 73, 86, 78 and 75 marks in four tests. What is the least number of marks she can secure in her next test, if she has to have a mean score of 80 marks in 5 tests?
7. Find the median of the numbers 85, 86, 78, 89 and 64.
8. Find the mode of following set of data: 29, 29, 10, 10, 3, 3, 14, 10, 2, 3
9. Find the mode and the mean of the following set showing numbers of hours of operating life of 25 flashlight batteries:
20, 21, 19, 22, 18, 23, 25, 22, 23, 20, 23, 20, 22, 21, 24, 21, 22, 23, 19, 21, 21, 22, 22,
24, 26, 22.
10. The table shows Arun and Sanjay's test scores. The tests were marked out of 20.

	English	Maths	Science	History	Geography	Hindi	Art
Arun	20	7	12	14	16	18	11
Sanjay	17	13	18	9	19	10	8

Draw a dual bar chart to compare their results.

11. A jar contains 3 white, 4 blue, 5 red and 2 green marbles. If a marble is drawn at random from the jar, what is the probability that the marble is
(a) white (b) red (c) blue (d) green (e) not white (f) not red
12. An ordinary pack of 52 cards is well shuffled. The top card is then turned over. What is the probability that
(a) The top card will be a red card (b) The top card is a number card.
13. A fair dice is rolled. Find the probability of obtaining
(i) a 5 (ii) an even number (iii) a prime number (iv) a 1 or a 2
14. A letter is chosen at random from the word 'ESTIMATE'. Find the probability that it will be (i) an E (ii) an S (iii) a T (iv) a letter other than A
15. Find the mode and median of the given set of data: 1, 2, 2, 3, 4, 2, 3, 3, 4, 3, 1.

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CH – 4 (SIMPLE EQUATION)

- Write the following statements in the form of an equation.
 - 11 added to a number gives 20.
 - 8 subtracted from twice a number is 7.
 - one-fourth of y is 9.
 - 5 added to two-third of a number is 6.
- From the given equations write the corresponding statements.
 - $x - 7 = 10$
 - $3p = 30$
 - $2n + 5 = 15$
 - $\frac{x}{3} - 4 = 8$
- Solve $8x - 6 = 7x - 2$
- Solve and check your answer: (i) $3t - 18 = 0$ (ii) $3(x + 6) = 21$
- The sum of twice a number and 25 is 45. Find the number.
- The sum of three consecutive even numbers is 96. Find the number.
- The length of a rectangle is three times its width. If the perimeter is 84 cm, then find the length of the rectangle.
- I think of a number, multiply it by 4 and add 7. The answer is 55. Find the number.
- Solve $8y - 3 - 5y = 24$
- One fifth of a number is 15. Find the number.
- Solve: $6(5x - 2) + 12 = 30$
- If $z + \frac{1}{4} = 1\frac{1}{4}$, find $3z$.
- If $\frac{3}{4}$ of a number is 60, then half the number is: (a) 30 (b) 40 (c) 80 (d) 60
- Solve: $7(x - 4) + 13 = 6$
- Mr Grover is three times as old as his son and sum of their ages is 48. How old is each?
- After gaining 15 kg, Nisha weighs 60 kg. What was her previous weight?
- Dhoni scored twice as many runs as Sehwag. Together they scored 198. How many runs did each of them score?
- 7 times a number decreased by 3 equal 18. Find the number?
- The sum of Ritu's age and Ashu's age is 25. Ritu is 12 years old. Write an equation to find Ashu's age? Also find Ashu's age?
- The sum of two consecutive numbers is 53. Find the numbers?