

C3 – Chahal coaching center

Mathes Test (class 8th) - Chapter: Comparing quantities (Total Marks: 20)

Section A: Multiple Choice (2 Marks)

1. If the marked price of a shirt is \$800 and it is sold at a discount of 15%, what is the selling price?
a) \$720 b) \$680 c) \$760 d) \$850
2. A shopkeeper bought a mobile phone for \$200 and sold it at a profit of 25%. What was the selling price?
a) \$225 b) \$250 c) \$275 d) \$300
3. If the cost price of an item is \$50 and it is sold at a loss of 10%, what is the selling price?
a) \$45 b) \$50 c) \$55 d) \$60
4. The population of a city increased from 500,000 to 550,000 in one year. What was the percentage increase?
a) 5% b) 10% c) 15% d) 20%

Section B: Fill in the Blanks (2 Marks Each)

5. If an item is sold at a profit of 20%, and its cost price is \$120, what is the selling price ?
6. The population of a town decreased from 120,000 to 110,000. How much the percentage decrease in population.

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Mathes Test (class 7th)- Chapter: Data handling (Total Marks: 20)

Section A: Calculations (1 mark each)

1. Calculate the mean of the following data set: 12, 15, 18, 21, 24.
2. Find the median of the data set: 5, 8, 12, 15, 18.
3. The ages of a group of friends are: 12, 13, 14, 12, 15, 12, 14, 16. Find the mode.
4. The heights (in cm) of 7 plants are: 45, 50, 55, 60, 65, 70, 75. Calculate the range.
5. Given the following data: 8, 10, 12, 8, 15, 12, 10, 8, 15. Construct a frequency distribution table showing the tally marks.

Section B: Application (2 marks each)

6. A teacher recorded the scores of her students in a math test: 75, 80, 85, 90, 95. Calculate the mean, median, and mode of the scores.
7. The temperatures (in degrees Celsius) in a city for a week were: 28, 30, 31, 29, 28, 32, 27. Calculate the range and the median temperature.
8. In a school canteen, the number of ice creams sold over a week were: 30, 25, 40, 35, 20, 45, 30. Calculate the mean and mode of ice creams sold.

7. The original price of a book was \$80. It is now being sold at a discount of 20%. Calculate the selling price.

Section C: Short Answer Questions (3 Marks Each)

8. If the selling price of an article is \$640 and the discount percentage is 20%, what was the marked price?
9. A smartphone's marked price is \$600. A shopkeeper offers a discount of 15% and then sells it for \$510. Calculate the percentage profit earned by the shopkeeper.
10. Maya bought a jacket for \$50 and sold it to her friend at a 10% loss. Her friend then sold it to someone else for \$60, making a 20% profit. Did Maya's friend make a profit or a loss, and by how much?
11. The price of a laptop was increased by 8% due to a rise in the cost of production. If the increased price is \$880, find the original price of the laptop.

Section C: Graphical Representation (3 marks each)

9. The table below shows the number of books different students read in a month. Create a bar graph to represent the data.

Number of Books	1-5	6-10	11-15	16-20
Number of students	3	8	5	2

10. The following data represents the ages of participants in a workshop: 12, 15, 14, 13, 12, 15, 16, 14. Create a frequency polygon to represent the data.
11. Draw a line plot for the following data, representing the number of hours students studied for a test: 2, 3, 4, 2, 1, 3, 5, 3, 2, 4.

Enrollment in local colleges, 2005