

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

**CLASS – VIII**

**MATHS ASSIGNMENT**

**Ch – 8 (Comparing Quantities)**

1. Increase 320 by 20%.
2. Write 240% as fraction and decimal.
3. Write the ratio 21 : 25 as percentage.
4. If 14% of a certain number is 63, find the number.
5. The price of a garment has been reduced by 15% in a sale to ₹306. Find its original price. (₹360)
6. In a class, 80 students passed and the rest failed. If 80% of the students failed, find the number of students in the class. (400)
7. A television set was purchased for ₹3200 and ₹560 were spent on its repairs. Then it was sold at a gain of  $12\frac{1}{2}\%$ . How much did the seller receive? (₹4230)
8. What is the cost price of an article which is sold at a loss of 25% for ₹150? (₹200)
9. A dealer prices an article at 20% more than the cost price and allows a discount of 10% on it. Find the gain percent. (8%)
10. Bhawna bought two fans for ₹3605. She sold one at a profit of 15% and the other at a loss of 9%. If Bhawna obtained the same amount for each fan, find the cost price of each fan. (₹1592.50, ₹2012.50)
11. Find the discount and the amount actually paid if a shirt having a price tag of ₹600 is sold at 15% discount.
12. Find the compound interest on ₹10752 at  $12\frac{1}{2}\%$  p.a. for 3 years, interest being payable yearly. (₹4557)
13. Sunil loaned ₹8192 to Ravi to enable him to purchase a T.V. set. If Sunil charged interest at the rate of 12.5% per annum, compounded half-yearly, calculate the amount that Ravi will have to pay to Sunil after  $1\frac{1}{2}$  years.
14. Find what sum will amount to ₹55,125 in two years at 5% per annum compound interest.
15. Find the number which when increased by 10% becomes 77.
16. Which will earn more interest and by how much?
  - (i) ₹6,000 lent at 12% p.a. compounded half yearly for  $1\frac{1}{2}$  years.
  - (ii) ₹6,000 lent at 12% p.a. compounded annually at  $1\frac{1}{2}$  years.
17. Geetika bought a food processor for ₹4,400. The price included a 10% VAT. Find the original price of food processor.
18. A motorcycle originally costs ₹40,000. Its cost has decreased by 22%. What is its cost now?

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MATHS ASSIGNMENT

CH. 4(PRACTICAL GEOMETRY) AND CH. 5(DATA HANDLING)

1. Construct a rectangle ABCD in which AB = 6 cm and BC = 5 cm.
2. Construct a square ABCD of side 4.5 cm.
3. Construct a parallelogram PQRS given PQ = 4.5 cm, QR = 3.5 cm and PR = 5.4 cm.
4. Construct a rhombus ABCD given AB = 6 cm and  $\angle A = 50^\circ$ .
5. Construct a rhombus ABCD in which AC = 7 cm and BD = 5 cm.
6. Represent the following distribution of ages (in years) of 35 teachers in a school by means of a histogram.

Age (in years)	25-30	30-35	35-40	40-45	45-50
Number of teachers	12	11	8	1	3

7. The way Mr. Sharma spends his allowance is given below.

Item	percent
Lunch	25%
Hobby	20%
Recreation	40%
Saving	15%
Total	100%

Represent the above information by a pie chart.

8. The number of books lent out by a school library each day is shown in the following table.

Day	Mon	Tue	Wed	Thurs	Fri
Number of books lent	10	25	33	16	6

9. A card is drawn from a pack of 100 cards numbered 1 to 100. Find the probability of drawing a number which is a square.
10. A card is chosen at random from an ordinary deck of playing cards. What is the probability that (a) a diamond is chosen (b) a king is chosen (c) a black 4 is chosen (d) a 7 of hearts is chosen
11. A die is tossed once. What is the probability of the number "7" coming up? What is the probability of a number "less than 7" coming up?
12. Instead of numbers, the letters in the word CHANCE were stuck on a die. Find the probability of rolling: (i) letter H (ii) a vowel (iii) a consonant (iv) any letter except E.
13. The following table shows the number of students in a school playing five different games.

Games	Football	Hockey	Cricket	Tennis	Squash
Number of students	200	175	250	75	50

14. The number of a students in a class arriving late for school one week was:

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	4	5	2	3	2
Week 2	6	3	4	1	2

Draw a dual chart to show the above set of data.

