



ALAGU JOTHI ACADEMY

(An International Standard CBSE Sr. Sec. School)

ASSIGNMENT 2017-2018

7

Mathematics

Name : _____

Class : _____

Date : _____

Section : _____

COMPARING QUANTITIES

I. Answer the following questions:

1. In a transaction, there is a profit if : _____
2. Which of the following is a correct statement?
 - a. $S.P = C.P + \text{Loss}$
 - b. $S.P = C.P - \text{Profit}$
 - c. $C.P = S.P - \text{Loss}$
 - d. $S.P = C.P + \text{Profit}$
3. In a transaction, if there is neither gain nor loss, then _____
4. If $C.P = ₹ 120$, $S.P = ₹ 100$, the, loss = _____
5. _____ are numerators of fractions with denominator 100.

II. Find the ratio of:

- a. 500 paise to ₹ 15
- b. 2 litres to 12000 millilitres
- c. 4 kg to 2400 g
- d. 7 m to 14 cm.
- e. 24 m to 36 m
- f. 20 kg to 150 kg

III. Rohit works in a factory and earns ₹ 1,500 per month. He saves ₹ 250 per month from his earnings. Find the ratio of :

- a. His savings to his earnings
- b. His earnings to his expenditure
- c. His savings to his expenditure

IV. Convert the given fractional numbers to per cents.

- a. $\frac{2}{5}$
- b. $\frac{3}{4}$
- c. $\frac{12}{50}$
- d. $\frac{5}{6}$

V. Convert the given decimal fractions to per cents.

- a. 0.42
- b. 3.1
- c. 0.05
- d. 23.5

VI. Find:

- a. 11% of 400 b. 25% of ₹ 3600 c. 30% of ₹ 4500
d. 75% of 1200ml e. 10% of 7000 m f. 14% of 600 minutes

VII. Convert given per cents to decimal fractions and also to fractions in simplest forms:

- a. 50% b. 25% c. 30% d. 10% e. 12%

VIII. Find the whole quantity if

- a. 4% of it is 600. b. 10% of it is ₹ 2000.
c. 50% of it is 700 km. d. 8% of it is 16 minutes.

IX. Complete the following table:

| Principal | Rate of Interest % per annum | Time period | Interest | Amount |
|-----------|---------------------------------|-------------|----------|--------|
| ₹ 600 | 5 | 4 | | |
| ₹ 1,200 | 8 | 3 | | |
| ₹ 300 | 6 | 5 | | |
| ₹ 600 | 7 | 3 | | |

X. Find the interest earned for the following:

- a. ₹ 900 at 8% per annum for 2 years
b. ₹ 1,050 at 7% per annum for 2 years.

XI. Word problems.

- a. Ramesh bought a second-hand car for ₹ 50,000. He sold this car for ₹ 70,000. Find his net profit and profit percent.
b. Maya bought a pen for ₹ 60. She sold it at a profit of ₹ 18. Find the selling price of the pen.
c. Mohit bought a cycle for ₹ 1,850. He sold it to Dinesh at a profit of 8%. Find the selling price of the cycle.