

A E E S e -LEARNING PROGRAMME  
MODULE -1/3  
COMPARING QUANTITIES  
WORK SHEET (40 marks)

Name of the student: \_\_\_\_\_

Class: VII

Section: \_\_\_\_\_

Roll No: \_\_\_\_\_

Fill in the blanks:-

(1mark × 8 = 8 marks)

- i. While comparing two quantities their \_\_\_\_\_ should be same.
- ii. If two ratios are equivalent then the four quantities are said to be in \_\_\_\_\_
- iii. Product of extremes = product of \_\_\_\_\_ in a proportion.
- iv. The value of a machine depreciates 20% annually. If its present value is Rs. 20,000, its value after 2 years will be \_\_\_\_\_
- v. x% of y is y% of \_\_\_\_\_
- vi. 23% + 47% + \_\_\_\_\_ = 100%
- vii. The ratio 3 : 8 is equal to \_\_\_\_\_%
- viii. 0.05 is equivalent to \_\_\_\_\_%

ANSWER THE FOLLOWING (2 mark questions)

(2 × 13 = 26 marks)

1. Find the ratio of: (a) 5 km to 400 m (b) 2 hours to 160 minutes.
2. State whether the following ratios are equivalent or not?  
(a) 2 : 3 and 4 : 5 (b) 1 : 3 and 2 : 6
3. Express the following ratios in simplest form:  
(a) 615 : 213 (b) 42 : 56
4. Compare the following ratios:  
3 : 4, 5 : 6 and 3 : 8
5. Are 25,15,6,5 in proportion ?
6. In an examination 86% of candidates passed and 70 failed. How many candidates appeared?
7. A machine costs ₹ 7500. Its value decreases by 5% every year due to usage. What will be its price after one year?
8. Convert  $\frac{1}{5}$  to per cent.

9. If the cost of one dozen pens is 60. Find the cost of 5 pens?

10. Convert the following percent into ratios and write in simplest form:

a) 15%

b) 65%

11. Convert the following decimals to percent:

a) 0.56

b) 0.7

12. Out of 32 students, 8 are absent. What per cent of the students are absent?

13. A shop has 500 parts, out of which 5 are defective. What per cent are defective?

ANSWER THE FOLLOWING (3 mark questions)

(3 × 2 = 6 marks)

14. If angles of a triangle are in the ratio 3 : 4 : 5. Find the value of each angle.

15. The price of petrol has risen from ₹ 80 to ₹ 84 a litre. By what per cent has the price risen up?

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