

# INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2023-24

**CLASS: VII    SUBJECT: MATHEMATICS    DATE:20-11-2023**

## LESSON: 8 – COMPARING QUANTITIES

1. While comparing two quantities their ----- should be same.
2. If two ratios are equivalent, then the four quantities are said to be in-----
3. To compare quantities, we use -----& -----
4. Check whether the given ratios are equivalent:  
a) 1: 2, 7 : 14    b) 12 : 19 , 18 : 25
5. Check whether the following numbers are in proportion:  
a) 4,12,21,63    b) 45,60,39,54
6. Find x, if 2: 42 :: 10 : x
7. The angles of a triangle are in the ratio 5: 3: 10. Find each angle?
8. The cost of 4 cupcakes is ₹168.Find the cost of a dozen cupcakes?
9. A car takes 3 hours to cover 105km.Find  
a) The time it takes to cover 280 km  
b) The distance it covers in 7.5 hours
- 10.Convert the following into percentages:  
a)  $\frac{9}{40}$     b)0.07    c) $22\frac{1}{2}$
- 11.Express the following percentages as fractions in the lowest forms  
a) 112%    b) 82%    c)  $1\frac{1}{5}\%$
- 12.Out of 72 children in a class,18 got marks above 95 in mathematics. What percentage of the children in the class got marks above 95 in Mathematics?
- 13.Evaluate a) 71% of 270 g                      b) 22% of 30km  
    c)69% of 440cm
- 14.The price of a sari is decreased from ₹720 to ₹630.Find the percentage of decrease in the price of sari?
- 15.Ammu saves ₹8000 every month from her salary. If this amount is 25% of her salary. Find her monthly salary?
- 16.A basket of mangoes was bought for ₹1,200. Few mangoes were rotten, so the remaining were packed in another basket and sold for ₹900.Find the loss percentage?

17. By selling a dinner set for ₹4,320, a crockery dealer made a profit of 8%.  
Find the CP of the dinner set?
18. CP = 28,000      Loss % = 15%      SP = ?
19. Ali borrowed ₹15,000 from a bank for 3 years at the rate of 12% p.a. Find the interest he has to pay during this time?
20. ₹10,000 deposited in a bank at the rate of 18% per annum amounted to ₹22,600 in few years. Find the time taken?

**Answers:**

- |              |                   |                           |
|--------------|-------------------|---------------------------|
| 1. Units     | 2. Proportion     | 3. Ratios & percentages   |
| 4. a) yes    | b) No             |                           |
| 5. a) yes    | b) Yes            |                           |
| 6. 210       | 7. 50°, 30°, 100° | 8. ₹504                   |
| 9. a) 8hrs   | b) 262.5 km       |                           |
| 10. a) 22.5% | b) 7%             | c) 2250%                  |
| 11. a) 1.12  | b) 0.82           | c) 0.012                  |
| 12. 25%      | 13. a) 191.7 g    | b) 6.6km      c) 303.6 cm |
| 14. 12.5%    | 15. ₹32,000       | 16. 25%                   |
| 17. ₹4,000   | 18. ₹23,800       |                           |
| 19. ₹5,400   | 20. 7 yrs.        |                           |

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