

Maths worksheet - 2017-18.

CH. 8 : COMPARING QUANTITIES

1. Divide Rs. 45000 among P, Q and R in the ratio 2 : 3 : 4. What will it be in percentages.
2. The three angles of a triangle are in the ration 1 : 2 : 3. Find their measures. Is it right-triangle?
3. Find the S.P. given,
 - i) C.P. = Rs. 700, gain = 12%
 - ii) C.P. = Rs. 960, gain = $7\frac{1}{2}$ %
 - iii) C.P. = Rs. 2000 and loss = $4\frac{1}{2}$ %
4. Find the C.P. given,
 - i) S.P. = Rs. 2725, gain = 9%
 - ii) S.P. = Rs. 819, loss = 9%
5. Find the Amount in each case.
 - i) P = Rs. 1500, R = 9% p.a., T = 3 years
 - ii) P = Rs. 2250, R = $8\frac{1}{3}$ % p.a., T = 2 years
 - iii) P = Rs. 5000, R = $12\frac{1}{2}$ % p.a., T = 2 years
6. Find the sum borrowed (Principal) in each case.
 - i) I = Rs. 1080, R = 9% p.a., T = 3 years
 - ii) I = Rs. 800, R = 8% p.a., T = 2 years
 - iii) I = Rs. 1050, R = 5% p.a., T = 3 years
7. Find the Rate of Interest, given
 - i) Int = Rs. 825, P = Rs. 3300, T = 3 years
 - ii) P = Rs. 6000, Int = Rs. 780, T = 2 years

The price of an electric motor was ₹ 5500. Its price has increased by 2%. What is the new price of the motor?

A pool has 10 lanes. During a swim meet, 80% of the lanes are used. How many lanes are not used?

10. 10% of the 440 people who came to see a circus show had free passes to get in. How many people had free passes? How many people had to pay to get in?
11. Find the percentage increase or decrease:
- (a) Price of a shirt decreased from ₹ 80 to 60.
- (b) Marks in a test increased from 20 to 30.
12. A cloth merchant buys cloth at ₹ 28 per metre and sells it at ₹ 35 per metre. Find his gain percentage.
13. A sofa set was bought for ₹ 1800 and sold at a loss of 25%. What was the selling price?

Answers.

- (1) 10000, 15000, 20000 (2) 30, 60, 90. Yes. (3) ₹ 784, ₹ 1032
- (4) ₹ 2500, ₹ 900 (5) ₹ 405, ₹ 375, ₹ 1250 (6) ₹ 36000,
- (7) ₹ 5375 (iii) 7000 (7) $8\frac{1}{3}\%$, $6\frac{1}{2}\%$ (8) ₹ 5610 (9) 20%, 2%
- (10) 44, 396. (11)(a) $2\frac{1}{2}\%$ (b) 50%. (12) 25%. (13) ₹ 1350.

