



ALPHA UNIVERSITY BORAMA

Assignment of math's meth

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1. Express the ratio 12:16 in its simplest form.

Answer: The simplest form is 3 to 4.

2. Divide \$120 in the ratio 2:3.

Answer: \$72 and \$48

3. The ratio of cats to dogs in a pet shop is 4:7. If there are 28 dogs, how many cats are there?

Answer: There are 16 cats.

4. If a person earns \$240 for working 8 hours, what is the rate of pay per hour?

Answer: The hourly rate is \$30.

5. Are the ratios 6:9 and 8:12 proportional?

Answer: Yes, both simplify to 2:3.

6. If 3 shirts cost \$45, how much would 5 shirts cost at the same rate?

Answer: 5 shirts would cost \$75.

7. If 5 pens cost \$10, how much do 12 pens cost?

Answer: 12 pens would cost \$24.

8. A class has 18 boys and 12 girls. What is the ratio of boys to the total number of students?

Answer: The ratio is 3 out of 5.

9. Find 25% of 480.

Answer: It is 120.

10. A jacket is sold for \$150 after a 20% discount. What was the original price?

Answer: Original price = \$187.50

11. A salesperson earns a 5% commission on sales. If they sell goods worth \$2,000, how much commission do they earn?

Answer: They earn \$100 commission.

12. If 60% of a number is 180, what is the original number?

Answer: The number is 300.

13. Find the simple interest on \$1,200 at a rate of 5% per annum for 3 years.

Answer: Simple interest = \$180

14. A sum of \$2,000 is invested at 10% per annum for 3 years compounded annually. Find the total amount.

Answer: Final amount is \$2,662

15. A loan of \$2,000 is given for 2 years at a rate of 6% per annum. What is the total amount to be repaid at the end of the period?

Answer: They will repay \$2,240 in total.