ALPHA UNIVERSITY BORAMA

Assignment of Maths Methods Name: Farhan Aden Ibrahim

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The Assignment

Individual Assignment The assignment: 30 marks Submission Date: 05-05-2025

- 1. Express the ratio 12:16 in its simplest form.
- = 3:4 (Divide both numbers by 4)
- 2. Divide \$120 in the ratio 2:3.
- = Total parts = 5
- = \$120 5 = \$24
- = \$48 and \$72
- 3. The ratio of cats to dogs in a pet shop is 4:7. If there are 28 dogs, how many cats are there?
- = 16 cats
- 4. If a person earns \$240 for working 8 hours, what is the rate of pay per hour?
- = \$30/hour
- 5. Are the ratios 6:9 and 8:12 proportional?
- = Yes, both equal 2/3
- 6. If 3 shirts cost \$45, how much would 5 shirts cost at the same rate?
- = \$75
- 7. If 5 pens cost \$10, how much do 12 pens cost?
- = \$24
- 8. A class has 18 boys and 12 girls. What is the ratio of boys to the total number of students?

- = 3:5
- 9. Find 25% of 480.
- = 120
- 10. A jacket is sold for \$150 after a 20% discount. What was the 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?
- = \$100
- 12. If 60% of a number is 180, what is the original number?
- = 300
- 13. Find the simple interest on \$1,200 at a rate of 5% per annum for 3 years.
- = \$180
- 14. A sum of \$2,000 is invested at 10% per annum for 3 years compounded annually. Find the total amount.
- = \$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?