****

**ALPHA UNIVERSITY BORAMA**

**Assignment of math’s meth**

**Name:** ABDIRAHMAN OMAR SICID DUCAALE **faculty: HRM ID: 552**

**Math Ratio and Percentage Questions - Answer Key**

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

**Answer: Simplest form is 3:4**

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

**Answer: $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?

**Answer: 16 cats**

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

**Answer: $30 per hour**

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

**Answer: Yes, both equal 2:3**

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

**Answer: $75**

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

**Answer: $24**

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

**Answer: 3:5**

9. Find 25% of 480.

**Answer: 120**

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

**Answer: $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: $100**

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

**Answer: 300**

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

**Answer: $180**

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

**Answer: $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: $2,240**