**Alpha university Borama**

**Assigment of maths of methods**

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**FUCULTY: Social work**

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**Answers:**

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

**Answers: 3:4**

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

**Answers: $48 and $72**

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

**Answers: 16cats**

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

**Answers: $30 per hour**

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

**Answers: yes they are proportional**

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

**Answers: $75**

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

**Answers:$ 24**

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

**Answers: 3:5**

1. Find 25% of 480.

**Answers: 120**

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

**Answers: $187.50**

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

**Answers: $25**

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

**Answers: 300**

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

**Answers: $180**

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

**Answers: $2662**

**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?

**Answers:$2240**