**ALPHA UNIVERSITY BORAMA**

**Assignment of math’s methods**

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**The assignment**

**Individual assailment the assignment 30 marks**

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

**Ans: 3:4**

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

**Ans: :**

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

Ans: cats

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

**Ans:$240/8 =$30 per hour**

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

Ans: **. there fore the two ratio is proportional**

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

**Ans: the cost of 5 shirts is=$75**

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

**Ans: the cost of 12 pens $24**

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

**Ans: total students 18+12= 30. Ratio = =**

1. Find 25% of 480.

Ans 120

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

**Ans: $187.50**

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

**Ans: $100**

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

**Ans: $300**

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

**Ans: $180**

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

**Ans: $2,662.**

1. 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?

**Ans:SI= , total 2000+240= $2, 240 .**