**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. 2/5\*120= 48

3/5\*120= 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?

Ans. 4/7=28/X

Cat is = 49

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

Ans. 240/8= 30

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

Ans. 6:9/3= 2:3 and 8:12/4= 2: 3

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

Ans. 1 shirt= 45/3= 15

5 shirt= 5\*15= 75

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

Ans. 1 pen =10/5= 2

12 pens= 12\*2= 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= 30

Boys to total = 18:30

1. Find 25% of 480.

Ans. 480\*25= 12000/100= 120

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

Ans. ( 100%-20%)\*x=150

Original price: 187.5

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

Ans. 2000\*5%= 100

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

Ans.

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

Ans. 5%\*1200\*1= 60

5%\*1200\*2= 120

5%\*1200\*3= 180

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

10%\*2000= 200

10%\*2200 = 2420

10%\*2420= 2662

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. 2000\*6%\*2= 240

2000+240=

2240