



## ALPHA UNIVERSITY BORAMA

## Assignment of math's methods

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The assignment

Individual assailment the assignment 30 marks

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Express the ratio 12:16 in its simplest form.

Ans: 3:4

Divide \$120 in the ratio 2:3.

Ans. 2/5\*120=48

3/5\*120=72

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

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

Ans. 240/8 = 30

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

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

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

If 5 pens cost \$10, how much do 12 pens cost? Ans. 1 pen = 10/5 = 212 pens= 12\*2= 24 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 = 18:30Find 25% of 480. Ans. 480\*25= 12000/100= 120 A jacket is sold for \$150 after a 20% discount. What was the original price? Ans. (100%-20%)\*x=150Original price: 187.5 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 If 60% of a number is 180, what is the original number? Ans. Find the simple interest on \$1,200 at a rate of 5% per annum for 3 years. Ans. 5%\*1200\*1=605%\*1200\*2= 120 5%\*1200\*3= 180 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 = 242010%\*2420= 2662

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?

2000+240=

2240

Ans. 2000\*6%\*2= 240