ALPHA UNIVERSITY BORAMA

Assignment of math's methods

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The Assignment
Individual Assignment – Total Marks: 30
Submission Date: 05-05-2025

Express the ratio 12:16 in its simplest

form.?

?

Answer:

3:4

Divide $120 in the ratio 2:

3.

?

?

Answer:

$48 and $72

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

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

?

Answer:

$30/hour

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

?

Answer:

Yes

If

3

shirts cost $45, how much would 5 shirts cost at the same rate?

?

Answer:

$75

If

5

pens cost $10, how much do 12 pens cost?

?

Answer:

$24

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

students?

?

Answer:

3:5

Find 25% of 480.

?

Answer:

120

A jacket

is sold

for $150 after a 20% discount. What was the original price?

?

Answer:

$187.50

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

?

Answer:

$100

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

?

Answer:

300

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

?

Answer:

$180

A sum of $2,000

is invested

at 10% per annum for 3 years compounded annually. Find

the total amount.

?

Answer:

$2,662

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