



ALPHA UNIVERSITY BORAMA

Assignment of math's methods

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The assignment

Individual assignment the assignment 30 marks

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

A: The simplest form is 3:4.

Q: Divide \$120 in the ratio 2:3.

A: \$120 in 2:3 is \$48 and \$72.

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

A: There are 16 cats.

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

A: \$30 per hour.

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

A: Yes, both simplify to 2:3.

Q: If 3 shirts cost \$45, how much would 5 shirts cost at the same rate?

A: \$75.

Q: If 5 pens cost \$10, how much do 12 pens cost?

A: \$24.

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

A: The ratio is 3:5.

Q: Find 25% of 480.

A: 25% of 480 is 120.

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

A: The original price was \$187.50.

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

A: \$100.

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

A: The original number is 300.

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

A: Simple interest is \$180.

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

A: Total amount is \$2,662.

Q:

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?

A:

Total

amount

is

\$2,240.