



**ALPHA UNIVERSITY BORAMA**

**Assignment of math's methods**

**Name: Ahmed Apdilaahi Warsame**

**Faculty: Accounting and Finance**

**ID: 1147**

**The assignment**

**Individual assignment the assignment 30 marks**

**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 are there.

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

**Answer.**

$\$240/8h = \$30/h$

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

$$6:9 = 2:3 \text{ And } 8:12 = 2:3$$

**Answer.**

Yes! both ratios simplify 2:3, so they are proportional.

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

**Answer.**

If 3 shirts cost \$45, the 5shirt will cost \$75.

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

**Answer.**

If 5 pens cost \$10, 12 pens would cost \$24.

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

**Answer.**

The ratio of boys of students is: 3:5.

Find 25% of 480.

**Answer.**

$$25\%/100 = 0.25, 0.25 \times 480 = 120.$$

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

**Answer.**

The original price of the jacket is a \$187.50.

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

**Answer.**

The earn commission of a salesprsn is \$100.

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

**Answer.**

The Original Number is 300.

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

**Answer.**

The simple interest is \$180.

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

**Answer.**

The compounded annually amount after 3year is \$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.**

The Total Amount of repaidi As a SI is a 2240

And Compounded is a 2247.20.