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Individual Assignment – 30 Marks

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Express the ratio 12:16 in its simplest form.

Answer:

3:4

Divide \$120 in the ratio 2:3.

Answer:

Total parts =  $2 + 3 = 5$

Each part =  $\$120 \div 5 = \$24$

So, 2 parts = \$48 and 3 parts = \$72

\$48 : \$72

The ratio of cats to dogs is 4:7. If there are 28 dogs, how many cats are there?

Answer:

16 cats

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

Answer:

\$30 per hour

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

Answer:

Yes

Yes

, they are proportional

If 3 shirts cost \$45, how much would 5 shirts cost?

Answer:

1 shirt = \$15, so 5 shirts =

\$75

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

Answer:

1 pen = \$2, so 12 pens =

\$24

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

Answer:

Total students = 30

Ratio =

3:5

Find 25% of 480.

Answer:

120

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

Answer:

Let original price be  $x$ .

\$187.50

A salesperson earns 5% commission on \$2,000 sales. How much is that?

Answer:

\$100

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

Answer:

Let the number be  $x$ :

300

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

Answer:

\$180

\$2,000 at 10% per annum compounded annually for 3 years. Total amount?

Answer:

\$2662

Loan of \$2,000 for 2 years at 6% p.a. Simple Interest. Total to repay?

Answer:

Total =

\$2240