

ALPHA UNIVERSITY BORAMA

Assignment of Math's Methods

Name: Hoodo Mohamed Nur

Faculty: Hrm

ID: 669

1.

Express the ratio 12:16 in its simplest form: ? 3:4

2.

Divide \$120 in the ratio 2:3:

Total parts = $2 + 3 = 5$

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

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

3.

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

Let cats be x ? $x = 16$? 16 cats

4.

If a person earns \$240 for 8 hours, what is the rate of pay per hour? ? \$30/hour

5.

Are the ratios 6:9 and 8:12 proportional? ? Yes, they are proportional

6.

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

Cost per shirt = $\$45 \div 3 = \15

5 shirts = $\$15 \times 5 = \75

7.

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

Cost per pen = \$2

12 pens = $\$2 \times 12 = \24

8.

A class has 18 boys and 12 girls. Ratio of boys to total students?

Total = $18 + 12 = 30$

Ratio = 3:5

9.

Find 25% of 480: ? 120

10.

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

Let original price be x ? $x \times 0.8 = 150$? $0.8x = 150$? $x = \$187.50$

11.

5% commission on \$2,000 sales: ? \$100 commission

12.

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

Let x be the number ? $x = 300$

13.

Simple interest on \$1,200 at 5% for 3 years: ? \$180

14.

Compound interest: \$2,000 at 10% for 3 years compounded annually: ? \$2,662

15.

Loan of \$2,000 for 2 years at 6% per annum (simple interest):

Total = $2000 + 240 = \$2,240$