ALPHA UNIVERSITY BORAMA

BUSINESS Methods Assignment

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1. Simplify the ratio 12:16

To simplify, divide both terms by their greatest common divisor (4):

 $12 \div 4 = 3$, and $16 \div 4 = 4$.

Answer: 3:4

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

Sum of the parts = 2 + 3 = 5

Each part = $$120 \div 5 = 24

First share: $2 \times \$24 = \48

Second share: $3 \times \$24 = \72

Answer: \$48 and \$72

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

Take the number of cats be x.

$$4/7 = x/28$$
? $x = (4 \times 28) \div 7 = 16$

Answer: 16 cats

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

Rate = $$240 \div 8 = $30/hour$

Answer: \$30 per hour

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

6:9 = 2:3, 8:12 = 2:3

Answer: Yes, they are proportional

6. If 3 shirts cost \$45, how much do 5 shirts cost?

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

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

Answer: \$75

7. If 5 pens cost \$10, what do 12 pens cost?

Cost per pen = $$10 \div 5 = 2

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

Answer: \$24

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

Total students = 18 + 12 = 30

Ratio = 18:30 = 3:5

Answer: 3:5

9. Find 25% of 480

25% of $480 = (25/100) \times 480 = 120$

Answer: 120

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

Let original price = x

80% of x = \$150? $x = 150 \div 0.8 = 187.50

Answer: \$187.50

11. A salesperson earns 5% commission on \$2,000 sales.

Commission = 5% of $\$2,000 = (5/100) \times 2000 = \100

Answer: \$100

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

Let the number be x.

60% of x = 180? $(60/100) \times x = 180$? $x = 180 \div 0.6 = 300$

Answer: 300

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

 $SI = (P \times R \times T)/100 = (1200 \times 5 \times 3)/100 = 180

Answer: \$180

14. Compound interest on \$2,000 at 10% for 3 years

Amount = $2000 \times (1 + 0.10)^3 = 2000 \times 1.331 = $2,662$

Answer: \$2,662

15. Total repayment on a \$2,000 loan at 6% per annum for 2 years (Simple Interest)

 $SI = (2000 \times 6 \times 2)/100 = 240

Total = 2000 + 240 = \$2,240

Answer: \$2,240

Abduwahab Abdukadir Ali GOOD LUCK