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1. Simplest form of 12:16

? Divide both by 4:

$$12:16 = 3:4$$

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

? Total parts =  $2 + 3 = 5$

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

? Shares =  $2 \times \$24$  and  $3 \times \$24 = \$48$  and  $\$72$

3. Cats to dogs is 4:7, with 28 dogs

? 7 parts = 28 ? 1 part = 4

? Cats =  $4 \times 4 = 16$  cats

4. \$240 for 8 hours

? Rate =  $\$240 \div 8 = \$30/\text{hour}$

? Let original price = x

? x ?  $20\%x = 150$  ?  $0.8x = 150$  ?  $x = 150 \div 0.8 = \$187.50$

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

?  $0.05 \times 2000 = \$100$

12. 60% of a number is 180

?  $0.6x = 180$  ?  $x = 180 \div 0.6 = 300$

13. Simple interest on \$1,200 at 5% for 3 years

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

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

?  $A = P(1 + r)^t = 2000 \times (1.1)^3$  ?  $2000 \times 1.331 = \$2,662$

15. Loan of \$2,000 for 2 years at 6% (Simple Interest)

$$? \text{ SI} = (2000 \times 6 \times 2)/100 = \$240$$

$$? \text{ Total} = 2000 + 240 = \$2,240$$