

ASSINGMENT

STUDENT NAME

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EXPRESS THE RATIO 12:16 IN ITS SIMPLEST FORM.

ANSWER: $12:16 = 3:4$ (DIVIDE BOTH TERMS BY 4)

2. DIVIDE \$120 IN THE RATIO 2:3.

ANSWER: TOTAL PARTS = $2 + 3 = 5$

2 PARTS = $(2/5) \times 120 = \$48$

3 PARTS = $(3/5) \times 120 = \$72$

3. THE RATIO OF CATS TO DOGS IN A PET SHOP IS 4:7. IF THERE ARE 28 DOGS, HOW MANY CATS ARE THERE?

ANSWER: $4/7 = X/28$? $X = (4 \times 28) / 7 = 16$ CATS

4. IF A PERSON EARNS \$240 FOR WORKING 8 HOURS, WHAT IS THE RATE OF PAY PER HOUR?

ANSWER: $\$240 \div 8 = \30 PER HOUR

5. ARE THE RATIOS 6:9 AND 8:12 PROPORTIONAL?

ANSWER: $6/9 = 2/3$, $8/12 = 2/3$? YES, THEY ARE PROPORTIONAL

6. IF 3 SHIRTS COST \$45, HOW MUCH WOULD 5 SHIRTS COST AT THE SAME RATE?

ANSWER: 1 SHIRT = $\$45 \div 3 = \15

5 SHIRTS = $5 \times \$15 = \75

7. IF 5 PENS COST \$10, HOW MUCH DO 12 PENS COST?

ANSWER: 1 PEN = $\$10 \div 5 = \2

12 PENS = $12 \times \$2 = \24 . A CLASS HAS 18 BOYS AND 12 GIRLS. WHAT IS THE RATIO OF BOYS TO THE TOTAL NUMBER OF STUDENT

TANSWER: $0.6X = 180$? $X = 180 \div 0.6 = 300$

3. FIND THE SIMPLE INTEREST ON \$1,200 AT A RATE OF 5% PER ANNUM FOR 3 YEARS.

ANSWER: $SI = PRT/100 = (1200 \times 5 \times 3) / 100 = \180

14. A SUM OF \$2,000 IS INVESTED AT 10% PER ANNUM FOR 3 YEARS COMPOUNDED ANNUALLY. FIND THE TOTAL AMOUNT.

ANSWER: $A = P(1 + R)^T = 2000 \times (1.10)^3 = 2000 \times 1.331 = \2662

15. A LOAN OF \$2,000 IS GIVEN FOR 2 YEARS AT A RATE OF 6% PER ANNUM. WHAT IS THE TOTAL AMOUNT TO BE REPAYED AT THE END OF THE PERIOD?

ANSWER (SIMPLE INTEREST): $SI = (2000 \times 6 \times 2)/100 = \240

TOTAL = $2000 + 240 = \$2240$

END