

Simplest form

$$12:16 :- 3:4$$

$$2$$

$$+3 = 5$$

$$2/5x$$

$$120 = \$48$$

$$3/5$$

$$*120=72$$

$$\text{Cats} =$$

$$4/7 \times 28 = 16 \text{ so there are 16 cats}$$

$$\$240/8\text{hrs} = \$30/\text{hr}$$

6:9 and 8:12 are proportional because

11. Commission= sales amount x commission rate

$$\$2000 / 0.005 = \$100$$

12. $60/100 \times 180 = 0.6 \times 180 = 300$

13. Principle:- $1200 \text{ rate } 5\% = 0.5 \text{ time } 4$

$$1200 \times 0.5 \times 4 = \$2400$$

14. Compound amount = Principal $\times (1 + \text{rate})^3$

$$2000 \times (1 + 0.10)^3$$

$$2000 \times 1.331 = \$2662$$

15. Simple interest

Step 1

$$= PRT \quad 2000 \times 0.06 \times 2 = 240$$

Step 2 total amount to repay

$$\text{Principal} + \text{interest} = 2000 + 240 = \$2,240$$

$$= \$2,000 \times 0.05$$

$$= \$100 \quad \text{Commission} = \text{Sales Amount} \times \text{Commission Rate}$$

$$= \$2,000 \times 0.05$$

$$= \$100$$

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