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1. Simplest form 12:16 :- 3:4
2. 2+3 = 5 2/5x120= $48 3/5\*120=72
3. Cats= 4/7x28= 16 so there are 16 cats
4. $240/8hrs= $30/hr
5. 6:9 and 8:12 are proportional because

Divide 3 to ratio 6:9 it will be 2:3 and divide 4 ratio 8:12 it will be 2:3 so yes they are proportional

6.45/3=15 so each shirt is $15 and 5 shirt cost will be 5x15=$75

7. 10/5=2 so each pen cost $2 and 12 pen will be 2x12= $24

8. The ratio of boys to girls is:-

18:12 simplify while dividing 6

18/6:12/6= 3:2

9. 25/100x480=0.25x480=120

10. Original Price = Discounted Price / (1 - Discount Rate)

If an jacket is sold for $150 after a 20% discount,:

Original Price = 150 ÷ (1 - 0.20) = 150 / 0.80 = $187

11. Commission= sales amount x commission rate

$2000/ 0.005= $100

12. 60/100x180= 0.6x180= 300

13. Principle:- 1200 rate5%= 0.5 time 4

1200x0.5x4= $2400

14. Compound amount = Principal x(1+rate)3

2000x (1+0.10)3

2000 x 1.331 = $2662

15. Simple interest

Step1

= PRT 2000 x 0.06 x 2 = 240

Step 2 total amount to repay

Principal + interest = 2000+240=$ 2,240

= $2,000 × 0.05

= $100Commission = Sales Amount × Commission Rate

= $2,000 × 0.05

= $100

So, the salesperson earns $100 in commission.

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