***Assignment***

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1.express the ratio 12:16 in it

is simplest form

* 12:16 is 4
* 12/4=3 simplest form 3:4
* 16/4= 4

2. divide $120 in the ratio 2:3

* 2+3=5

(2/5) x120=&48

(3/5) x120=$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?

* 28/7=4
* Cats=4x4= 16cats

4. if a person earns $240 for working 8hours, what is the rate of pay per hour?

* 240 for 8hours
* 240/8= $30 per hour

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

* 8:9= 2:3
* 8:12= 2:3

6. if 3 shirts cost $45, how much would 5 shirts cost at the same rate?

* 3 shirts = $45
* 1 shirt = $15
* 5 shirts = 5x15 =$75

7. if 5 pens cost $10, how much do 12pens cost?

* 5 pens = $10
* 1 pen = $2
* 12 pens = 12x2 = $24

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

* Boys = 18, Girls = 12

Total student =18+12 = 30

Ratio of boys to total = 18:30 = 3:5

9. Find 25% of 480.

* 25% of 480 = 480x0.25 = 120

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

* $150 after 20% discount

Let original price = X

80% of X = 150 .x = 150/0.8 = $187.50

11. A sales person earns a 5% commission on sales. If they sell goods worth $2,000, how much commission do they earn?

* 5% of $2,000 =2000 x0.05 =$100

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

* 60% of x =180
* X=180/0.6=$300

13. find the simple interest on $1200 at a rate of 5% per annum for 3 years.

* P x R x T /100

= 1200 x 5 x 3 / 100 = $180

14. A sum of $2,000 is invested at 10% per annum for 3 years compounded annually. Find the total amount.

* P(1+r/100) t

= 2000(1+0.10) 3 = 2000 x 1.331 = $2662

Interest = 266-2000 = $662

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 repaid at the end of the period?

* A =p(1+r/100) t

A = 2000(1+0.06) 2 = 2000 x 1. 1236 = $2247.20

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