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***Department*: human resource managment**

***Course: math’s methods***

***Program:*diploma**

***Class:*online**

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1: Express the ratio 12:16 in its simplest form?

***ANS***:12/4:16/4=3:4

2:divide $120 in the ratio 2:3?

***ANS***:2+3=5

2/5x120=&48

3/5x120=72

&48:&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?

ANS:4/7x28=16 cats

4:If person earns &240 for working 8 hours what is rate of pay per hour ?

***ANS:*** 240/8=30 per hours

5:are the ratio 6:9 and 8:12 proportional

***ANS:*** 6:9=6/9=2/3

8:12=8/12=2/3 since both simplifies to the same fraction the ratios are proportional

6:if 3 shirts cost &45 how much would 8 hour, what is the rate of pay per hour?

***ANS***:45/3=15X5=75

7: if 5pens cost &10 how much do 12 pens cost ?

***ANS:*** 10/5=2x12=24

12pens cost &24

8:a class has 18boys and 12girls what is ratio of boys to total number of students?

***ANS:*** total numbers students =18+12=30 students

The ratio of boys to the total number of students=18:30=3:5

9:find 25%of 480?

***ANS:*** 25%of 480 =25/100x480=0.25x480=120

10:a jacket is sold for &150 after a 20%discount,what was the original price?

the selling price is 80%

150/0.80=187.50 the original price was 187.50

11:a sale person earns a 5%commission on sale if they sell goods worths &2000,how much commission do they earns

***ANS:*** commission:5/100x2000=0.05x20000=100

The sale person earns &100 in commission

12:if 60% of a number is 180. What is the original number?

***ANS***: given that 60%of x=180

0.60xx=180

X=180/0.60=300

13:the simple interest on 1200 at rate of 5%per annum for 3years?

***ANS:*** simple interest =PxRxT/100

P=1200

R=5

T=number of years

SI=1200x5x3/100=18000/100=180

S0 $180 interest in 3years

14:asum of$2000 is invested at 10%per annum for 3 years compounded annually find the total amount?

***ANS:***A=P(I+R/M) A=amount of3years

A=2000(1+10/100)3

P=2000 =2000(1.10)3

R=1 A=2000X1.331=2662

T=3 years

15:Aloan of 2000 is given for 2years at a rate of 6%per annum. what is the total amount to be repaid at the end of the period?

***ANS:*** SI=PXRXT/100

Where SI=2000x6x2/100=24000/100=240

P=2000 Total=P+SI=2000+240=2240

R=6 total amount to be repaid is &2240

T=2years