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Course: math's methods

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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 3 years?

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 of 3 years

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 2 years 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