**ALPHA UNIVERSITY BORAMA**

**Assignment of math’s methods**

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**The assignment**

**Individual assailment the assignment 30 marks**

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

answer : 3: 4

3/4

2:Divide $120 in the ratio 2:3

answer total 2+3 = 5

120÷5=24

24×2=48

24×3=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?answer.

4:7. This means that for every 4 dogs, there are 7 cats.

4dog/7cat =28/x

4x=28×7

x=196

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

answered:$240 / 8 = $30.

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

answere:

1. The given numbers are wrtten as

6/9=8/12

6×12=72

9×8=72

72=72 proportional ratio

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

ANSWERE :45/3×5

=$75 shirt

7:If 5 pens cost $10, how much do 12 pens cost?

answere:10/5 ×12

=24 pens

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

answer

18 boy +12 girl =30

ratio 2:5

2/5

9: Find 25% of 480.

answer :

25/100=0.25

0.25×480

120

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

answer

150 [20÷100]

150×0.20

30

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

answer : 5/100 [2000]

0.05×2000

100

12:If 60% of a number is 180, what is the original number?

answer 60/100[180]

0.60\*180

108

1. 13:Find the simple interest on $1,200 at a rate of 5% per annum for 3 years.

answer:

Clearly Rate = 5% p.a. Time = 3 years S.I.= Rs. 1200. So principal=RS [100\*1200]/3\*5=RS 8000 Amount = Rs. 8000 x [1 +5/100]3 = Rs. 9261. C.I. = Rs. 9261 - 8000 = Rs. 1261.

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

Find the total amount.

answer :

2000\*0.1\*3=600

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?

answer

year

1:6%\*2000=1200\*1=1200

2:6%\*2000=1200\*2=1400 the