**rlZntAN 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.

**ANS:3:4**

1. Divide $120 in the ratio 2:3

**ANS :2+3=5 then 2÷5×120=48**

1. 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÷7=x÷28=7×=112 each one ÷7= 16 there fore 16cats**

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

**ANS : rateper h=8×240×1=1920**

1. Are the ratios 6:9 and 8:12 proportional?
2. If 3 shirts cost $45, how much would 5 shirts cost at the same ra

**Ans : 5shirt cost=45÷3×5=&75**

1. If 5 pens cost $10, how much do 12 pens cost?

**ANS :12pen cost is 10÷5×12=24**

1. A class has 18 boys and 12 girls. What is the ratio of boys to the total number of students?**ANS:total ratio of student = sum boys and girls=30**
2. Find 25% of 480.

**ANS : actual price 25÷100×480=120**

**Sellingprice=costpr+profit=480+120=60**

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

**ANS: : original=saleprice\_discount 20÷100×150=30**

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

**ANS: c=Rc×AS 5÷100×2000=100**

12 : if 60% of a number is 180, what is the original numbe

**ANS: 100\_60=40%=0.40=0.40×180 original=72**

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

**Ans: first y5%×1200×1=60**

**Secondy5%×1200×2=120**

**Thirdy5%×1200×3=180**

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

**ANS:total =10%×10000=1000 so 20000+1000=2100**

**b. 10%×1000=100 so 2100+100=2200**

**C : 10%1000=100 there fore =2200+100=2300**

**Total num=2300**

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?

**ANS:6%×1000=60 then 2000+60=2060**

**6%×10000=2060+60 so thetotal number=2120**