**ALPHA UNIVERSITY BORAMA**

**Assignment of math’s methods**

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1.Express the Ratio 12:16 in Its Simplest Form.

**Answer:** The Simplest Form Of This Form Are :3:4

2. Divide $120 In The Ratio 2:3.?

Step 1: Add The Parts Of The Ratio Together:

2 + 3 = 5 Parts

Step 2: Find The Value Of One Part:

$120 ÷ 5 = $24

Step 3: Multiply By Each Ratio Number:

2 Parts: 2 × $24 = $48

3 Parts: 3 × $24 = $72

**Final Answer:**

$48 and $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 Is**: There Is 16 Cats

4. If A Person Earns $240 For Working 8 Hours, What Is The Rate Of Pay Per Hour?

**Answer:** Rate Per Hour= Total Earning /Total Hour Worked=240/8= 30

5. Are the Ratios 6:9 and 8:12 Proportional?

**Answer** Is: Since Both Are Simplify To 2/3 The Ratios 6:9 And 8:12 Are Proportional.

6.If 3 Shirts Cost $45, How Much Would 5 Shirts Cost At The Same Rate?

**Answer** : Multiply By 5 To Find The Cost Of 5 Shirt

5\*15= $75

7.If 5 Pens Cost $10, How Much Do 12 Pens Cost?

**Answer**: 12\*2=24

So 12 pens Would Cost $24

8 A Class Has 18 Boys And 12 Girls. What Is The Ratio Of Boys To The Total Number Of Students?

**Answer** :The Ratio Of Boys To Total Students Is 3:5

Find 25% Of 480.?

**Answer;**25%Of 480 Is 120

10.A Jacket Is Sold For $150 After A 20% Discount. What Was The Original Price?

The Original Price Was :$187.50

11.A Salesperson Earns A 5% Commission On Sales. If They Sell Goods Worth $2,000, How Much Commission Do They Earn?

**Solution:**5%Of 2000=5/100\*2000=0.05\*2000=100

The Salesperson Earn $100 Commission

12.If 60% Of A Number Is 180, What Is The Original Number?

**Answer:** The Original Number Is 300

13.Find The Simple Interest On $1,200 At A Rate Of 5% Per Annum For 3 Years.

**Answer:** The Simple Interest Is $180

14.A Sum Of $2,000 Is Invested At 10% Per Annum For 3 Years Compounded Annually. Find The Total Amount.

**Answer**: The Total Amount After 3 Years Is $2662

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:** the total amount to be repaid after the end of the period is $2240