Name: **Muna Dahir Awed**

Faculty: Social work

ID.435

The assignment

Individual assailment

the assignment 30 marks

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

**Answer**: 3:4

1. Divide $120 in the ratio 2:3.

**Answer**:48 :72

1. The ratio of cats to dogs in a pet shop is 4:7. If there are 28 dogs, how many cats are there?

**Answer**: 16

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

**Answer**: 30 per hour

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

**Answer**: 2:3 2:3

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

**Answer**: 75

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

**Answer**: 24

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

**Answer:** 3:5

1. Find 25% of 480.

**Answe**r: 120

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

**Answer**; 187.50

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

**Answer**: 100

1. If 60% of a number is 180, what is the original number?

**Answer**: 300

1. Find the simple interest on S1,200 at a rate of 5% per annum for 3 years.

Answer: 180

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

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2,000 | 10%\*2,000=200 | 2,000+200=2,200 |
| 2 | 2,200 | 10%\*2,200=220 | 2,200+220=2,420 |
| 3 | 2,420 | 10%\*2420=242 | 2420+242=2,662 |

**Answer**: 662

1. 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:** 2,000\*0.06\*2= 240