**Answer Sakariye maxamed xuseen ID: 573**

1. 12:16 in simplest form:

12:16 = **3:4**

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

Total parts = 2 + 3 = 5

* 2/5 \*120 = **48**
* 3/5\*120 = **72**

1. Cats to dogs = 4:7, dogs = 28:

If 7 parts = 28, then 1 part = 4

Cats (4 parts) = 4 × 4 = **16 cats**

1. $240 for 8 hours → Rate per hour:

$240 ÷ 8 = **$30/hour**

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

6/9 = 2/3, 8/12 = **2/3**

1. 3 shirts = $45. 5 shirts?

1 shirt = $15 5 × 15 = **$75**

1. 5 pens = $10 12 pens?

1 pen = $2 12 × 2 = $**24**

1. 18 boys, 12 girls total = 30

Ratio boys to total = 18:30 = **3:5**

1. 25% of 480 = (25/100) × 480 = **120**
2. $150 after 20% discount Original price?

original = **$187.50**

1. 5% commission on $2,000 = (5/100) × 2000 = $**100**
2. 60% of a number = 180 find number

………………………….

1. Simple interest: $1,200 at 5% for 3 years

SI = (P × R × T) / 100 = (1200 × 5 × 3) / 100 = **$180**

1. Compound interest: $2,000 at 10% for 3 years

**= 600**

1. Loan: $2,000 for 2 years at 6% simple interest

SI = (2000 × 6 × 2) / 100 = **$240**

Total = 2000 + 240 = **$2,240**