12:

16 in simplest form:

12:16 = **3:4**

Divide $120 in the ratio 2:3:

Total parts = 2 + 3 = 5

2/5 *

120 =

48

3/5*120 =

72

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

If 7 parts = 28, then 1 part = 4

Cats (4 parts) = 4 × 4 = **16 cats**

$240 for 8 hours ? Rate per hour:

$240 ÷ 8 = **$30/hour**

Are 6:9 and 8:12 proportional?

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

3 shirts = $45

.

5 shirts?

1 shirt = $15 5 × 15 = **$75**

5 pens = $10

12 pens?

1 pen = $2 12 × 2 = $**24**

18 boys, 12 girls

total = 30

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

25% of 480 = (25/100) × 480 =

120

$150 after 20% discount

Original price?

original = **$187.50**

5% commission on $2,000 = (5/100) × 2000 = $

100

60% of a number = 180 find numbe

r

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

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

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

= 600

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

SI = (2000 × 6 × 2) / 100 = **$240**

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