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FACULTY: SOCIAL WORK -Online

ID: DIP/25/433

12?

/4=3

16/4=4

Simplified ratio: 3:4

2

+

3

=

5

120/5=24

Part one:24x2=48

Part two: 24x3=78

Result:

$48 and $72

Set up the ratio

Cats : Dogs = 4 : 7
Dogs = 28

Step 2: Find the value of one part

28/7?=4 per part

Step 3: Multiply to find the number of cats

4×4=16

There are 16 cats.

240/8=30

Rate of pay: $30 per hour

6:9

? Divide both by 3

?2:3

8:12 ? Divide both by 4 ?2:3

Both simplify to 2:3, so they are proportional

Yes, 6:9 and 8:12 are proportional

Find the cost per shirt

45/3=15

Multiply by 5

5x15=75

Cost of 5 shirts: $75

Cost per pen = $10 ÷ 5 = $2

Cost of 12 pens = 12 × $2 = $24

Total students = 18 + 12 = 30

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

25% of 480 = 0.25 × 480 =

120

Let original price be

x

After 20% discount: x-0.2x=0.8x=150

X=150/0.8=**$187.5**

Commission = 5% of $2,000 = 0.05 × 2000 =

$100

Let the number be

x

60% of x =180 ?0.6x=180

x=180÷0.60=**300**

SI

=

P

×

R

×

T

÷

100

=

1200

×

5

×

3

÷

100

=

$180

Formula:

A=P(1+r)t=2000

2000(1+0.10)3

A= 2000×1.1*3

=2000×1.331=**$2,662**

SI =

2000×6×2÷100= 240

Total Repayment=Principal+ Interest=2000+240= **$2240**