Alpha University Faculty of Social work

Assignment

Name Abdiqani Abdilahi Mohamed

ID 692

To simplify the ratio 12:16:
Find the greatest common divisor (GCD) of 12 and 16.
GCD of 12 and 16 is
4
•
Divide both terms by the GCD:
$12 \div 4 = 3$
$16 \div 4 = 4$
Add the parts of the ratio:
2 + 3 =
5 parts
Find the value of one part:
\$120 ÷ 5 =

\$24

Multiply each part:

$$2 parts = 2 \times \$24 =$$

\$48

3 parts =
$$3 \times $24 =$$

\$72

The 7 parts in the ratio correspond to 28 dogs:

$$28 \div 7 =$$

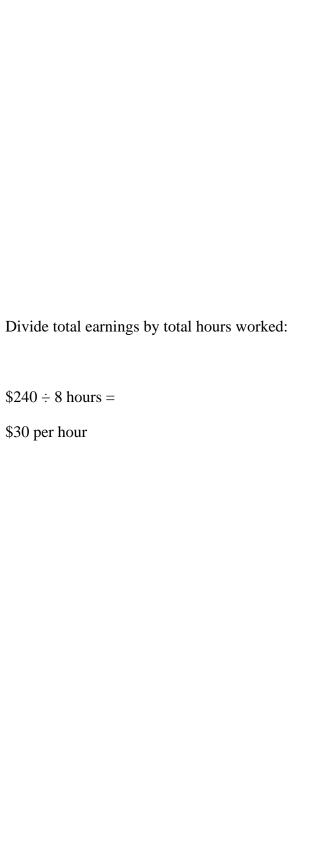
4

(value of one part)

Multiply by the number of cat parts (4):

$$4 \times 4 =$$

16 cats



Simplify both ratios:

6:9 ? divide both by 3 ?

2:3

8:12 ? divide both by 4 ?

2:3

Since both simplify to

2:3

, they

are proportional

.

\$15 per shirt

\$75

\$2 per pen

\$24

GCD of 18 and 30 is

6

$$18 \div 6 = 3$$

$$30 \div 6 = 5$$

$$25\% = 25 \div 100 = 0.25$$

$$0.25 \times 480 =$$

$$80\% \text{ of } x = $150$$

$$0.80\times x=150$$

$$x = 150 \div 0.80$$

$$\mathbf{x} =$$

\$187.50

 $5\% = 5 \div 100 = 0.05$

 $0.05 \times 2,000 =$

\$100

P=1200P=1200

P

_

1200

(principal amount),

R=5%R=5%

R

=

5%

(rate per annum),

T=3T=3

T

=

3

years (time).

P=2000P=2000

P

=

2000

(principal),

R=10%R=10%

R

=

10%

(rate per annum),

T=3T=3

T

_

3

years (time).

PP

P

is the principal amount (loan),

RR

R

is the rate of interest per annum,

TT

T

is the time period in years.

P=2000P=2000

P

=

2000

R=6%R=6%

R

=

6%

T=2T=2

T

years,