

Name: Class:

Unit rates and equivalent rates

Unit rate is a measure of a part with respect to a whole.

a. Peter has 50 cows in his 5 animal farms. What is the unit rate?



b. Mrs. Patience baked 40 loaves of bread in 8 hours. What is the unit rate?

c. There are a total of 192 people in 4 buses. What is the unit rate?

d. Lily travels 705 miles in 5 hours. What is the unit rate?



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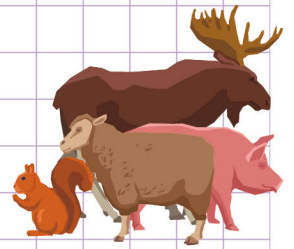
- a. Peter has 50 cows in his 5 animal farms. What is the unit rate?

The unit rate will be the number of cows Peter has in 1 animal farm.

If 5 animal farms have 50 cows,

Then, 1 animal farm will have $\frac{50 \times 1}{5}$ cows, = 10 cows

So, the unit rate is 10 cows per farm



- b. Mrs. Patience baked 40 loaves of bread in 8 hours. What is the unit rate?

The unit rate will be the number of loaves baked per hour.

If in 8 hours she baked 40 loaves,

Then in 1 hour, she will bake $\frac{40 \times 1}{8}$ loaves, = 5 loaves

So, the unit rate is 5 loaves per hour

- c. There are a total of 192 people in 4 buses. What is the unit rate?

The unit rate will be the number of people per bus

if 4 buses have a total number of 192 people,

Then, 1 bus will have $\frac{192 \times 1}{4}$ people, = 48 people

So, the unit rate is 48 people per bus

- d. Lily travels 705 miles in 5 hours. What is the unit rate?

The unit rate will be the number of miles Lily will travel per hour

if in 5 hours Lily travels 705 miles,

Then in 1 hour, she will travel $\frac{705 \times 1}{5}$ miles, = 141 miles

So, the unit rate is 141 miles per hour

