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?

e. Annael travels 150 miles in 1 hours. What is the unit rate?

f. There are a total of 270 people in 6 buses. What is the unit rate?

g. Mrs. Gloria baked 70 loaves of bread in 12 hours. What is the unit rate?

h. Patrick has 80 cows in his 8 animal farms. What is the unit rate?

MP Math-wordproblems.com

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?

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.