

Name _____

Date _____

Ratios of Fractions and Their Unit Rate

Which is the better buy? Show your work and explain your reasoning.

$3\frac{1}{3}$ lb. of turkey for \$10.50

$2\frac{1}{2}$ lb. of turkey for \$6.25

1. Determine the quotient: $2\frac{4}{7} \div 1\frac{3}{6}$
2. One lap around a dirt track is $\frac{1}{3}$ mile. It takes Bryce $\frac{1}{9}$ hour to ride one lap. What is Bryce's unit rate, in miles, around the track?
3. Mr. Gengel wants to make a shelf with boards that are $1\frac{1}{3}$ feet long. If he has an 18-foot board, how many pieces can he cut from the big board?
4. The local bakery uses 1.75 cups of flour in each batch of cookies. The bakery used 5.25 cups of flour this morning.
 - a. How many batches of cookies did the bakery make?
 - b. If there are 5 dozen cookies in each batch, how many cookies did the bakery make?
5. Jason eats 10 ounces of candy in 5 days.
 - a. How many pounds will he eat per day? (Recall: 16 ounces = 1 pound)
 - b. How long will it take Jason to eat 1 pound of candy?

Which is the better buy? Show your work and explain your reasoning.

$3\frac{1}{3}$ lb. of turkey for \$10.50

$2\frac{1}{2}$ lb. of turkey for \$6.25

$$10\frac{1}{2} \div 3\frac{1}{3} = \$3.15$$

$$6\frac{1}{4} \div 2\frac{1}{2} = \$2.50$$

$2\frac{1}{2}$ lb. is the better buy because the price per pound is cheaper.

1. Determine the quotient: $2\frac{4}{7} \div 1\frac{3}{6}$

$$1\frac{5}{7}$$

2. One lap around a dirt track is $\frac{1}{3}$ mile. It takes Bryce $\frac{1}{9}$ hour to ride one lap. What is Bryce's unit rate, in miles, around the track?

3

3. Mr. Gengel wants to make a shelf with boards that are $1\frac{1}{3}$ feet long. If he has an 18-foot board, how many pieces can he cut from the big board?

$13\frac{1}{2}$ boards

4. The local bakery uses 1.75 cups of flour in each batch of cookies. The bakery used 5.25 cups of flour this morning.

a. How many batches of cookies did the bakery make?

3 batches

b. If there are 5 dozen cookies in each batch, how many cookies did the bakery make?

$$5(12) = 60 \text{ cookies per batch}$$

$$60(3) = 180 \text{ cookies in 3 batches}$$

5. Jason eats 10 ounces of candy in 5 days.

a. How many pounds will he eat per day? (Recall: 16 ounces = 1 pound)

$\frac{1}{8}$ lb. each day

b. How long will it take Jason to eat 1 pound of candy?

8 days