Multiplying and Dividing Fractions
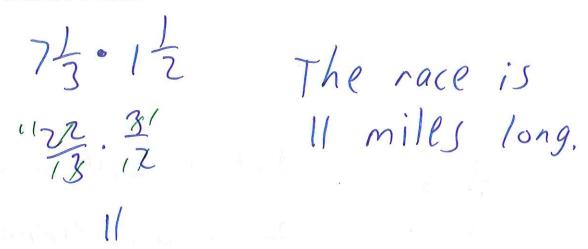
Name: Key

7th Grade Math

Show all work!

1. Andres has $\frac{3}{5}$ of a watermelon. He wants to give $\frac{1}{2}$ of what he has to his sister. How much of the watermelon will Andres be giving his sister?

$$\frac{3}{5} \cdot \frac{1}{2}$$

$$\frac{3}{10}$$

Andres will be giving $\frac{3}{10}$ of a watermelon to his sister.

2. Shelby ran 1 ½ miles. Leah ran ¾ as far as Shelby. How far did Leah run?

$$1\frac{1}{2} \cdot \frac{3}{4}$$

$$\frac{3}{2} \cdot \frac{3}{4}$$

$$\frac{9}{8} = 1\frac{1}{8}$$

Leah ran $1\frac{1}{8}$ of a mile.

3. Anna is cutting pieces of wood for a birdhouse. If she has a board ¾ of a yard long and wants to cut pieces that are $\frac{1}{8}$ of a yard long, how many pieces will she get?

$$\frac{3}{4} \div \frac{1}{8}$$

$$\frac{3}{4} \cdot \frac{8}{1}$$

$$6$$

Anna will get 6 pieces of wood that are $\frac{1}{8}$ of a yard long.

4. Leila is running a road race. He average speed is $7\frac{1}{3}$ miles per hour. How long is the race if Leila finishes in 1 ½ hours?

$$7\frac{1}{3} \cdot 1\frac{1}{2}$$

$$\frac{^{11}\cancel{22}}{\cancel{3}} \cdot \frac{\cancel{3}^1}{\cancel{2}}$$

$$11$$

The race is
11 miles long.

5. Dana swims 5 ½ laps in 2 minutes. Justine can swim 1 ½ times as far in the same amount of time. How far will Justine swim in 2 minutes?

$$5\frac{1}{2} \cdot 1\frac{1}{2}$$

$$\frac{11}{2} \cdot \frac{3}{2}$$

$$\frac{33}{4} = 8\frac{1}{4}$$

Justine will swim
$8\frac{1}{4}$ laps in
2 minutes.