

Name: _____ Date: _____ Class: _____

FINDING AND USING UNIT RATES

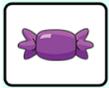
 = turn and talk. Stop and share your responses with your partner. If you have different responses, try to come to a consensus.

WARM-UP

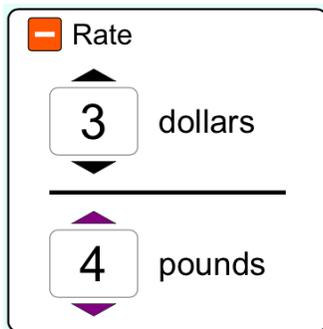


1. Explore the *Unit Rates* sim. Play with it for about 5 minutes. Write down three discoveries that you make or questions that you have.
 - a.
 - b.
 - c.

FINDING AND USING UNIT RATES

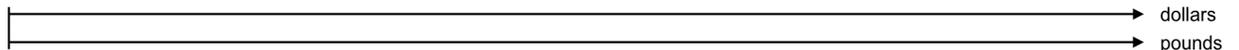


2. Focus on the **Candy** scene in the Shopping Lab. Set the rate as identified below.

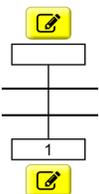


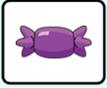
Price (\$)	Pounds (lbs)
0.30	
0.60	
	1
	1.2
3.00	4

- a. Using the double-number line and scale in the sim, complete the table above. Make sure to fill in some of the values you've observed on your double number line.



- b. **Check** your price for one pound of candy using the double number line. Modify your answer if needed.  Share with your partner how you found the price for one pound of candy. Did they use the same strategy as you? Write about what you discussed.





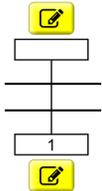
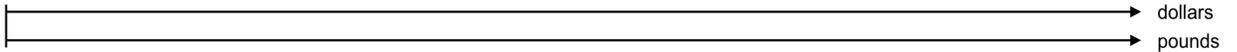
3. Focus on the **Candy** scene.

- a. Set your own rate and fill it in below. Mark at least 3 points on the double number line that correspond to your set rate.

Rate

dollars

pounds



- b. How much does 1 pound of your candy cost? **Check** that rate (dollars per pound) on the number line in the sim. Make modifications to your answer if necessary. Record this unit rate on the number line above. How did you determine the unit rate?

- c. Set another rate that is equivalent to what you set in 3a. Fill it in below.

Rate

dollars

pounds

- d. How do you know the two rates are equivalent?



4. Focus on the **Carrots** scene. Set your own rate and fill it in below.

Your carrots:

Rate
<input type="text"/> dollars
—
<input type="text"/> Carrots

Partner's carrots:

Rate
<input type="text"/> dollars
—
<input type="text"/> Carrots

- a. Suppose you and your partner shop at different grocery stores. Compare the cost of your carrots to their carrots. Who got the better deal? Justify your answer.
- b. You used a strategy to compare the prices above. What's another strategy that you could use to compare the prices?
- c. If you have \$5.00, about how many carrots can you buy? Justify your solution.

INDIVIDUAL PRACTICE

5. Jelly Beans cost \$4.79 for $\frac{1}{2}$ pound. Gumballs cost \$3.93 for $\frac{3}{4}$ pound. Which kind of candy is cheaper? How do you know?
6. Two pools are leaking. After 15 minutes, pool A has leaked $\frac{2}{3}$ gallon. After 20 minutes, pool B has leaked $\frac{3}{4}$ gallon. Which pool is leaking faster?

7. Greta's oatmeal recipe calls for $1\frac{1}{2}$ cups of dry oats for 3 servings. How many cups are there per serving?

SUMMARY

8. Essential questions check-in

- a. How can you find a unit rate when given a rate? Please provide an example.

- b. How does the unit rate help you to compare rates?