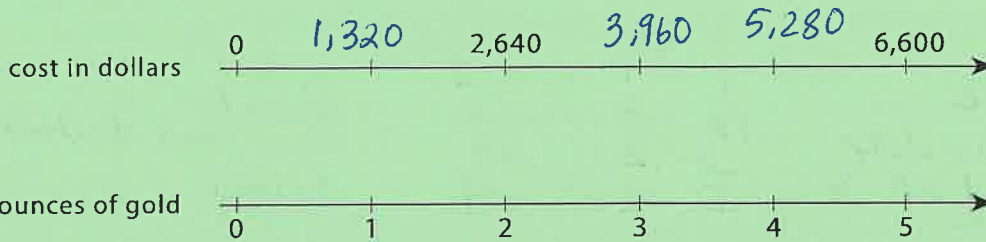*KEY*

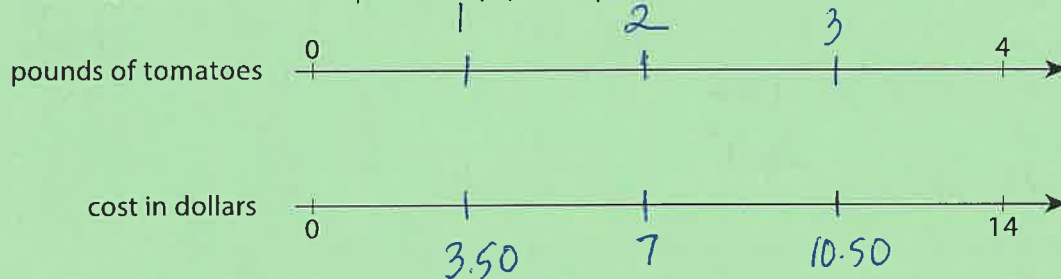NAME   DATE   PERIOD

Unit 2, Lesson 8
Practice Problems

11

1. In 2016, the cost of 2 ounces of pure gold was $2,640. Complete the double number line to show the cost for 1, 3, and 4 ounces of gold.

cost in dollars
0   *1,320*   2,640   *3,960*   *5,280*   6,600

ounces of gold
0   1   2   3   4   5

1

2. The double number line shows that 4 pounds of tomatoes cost $14. Draw tick marks and write labels to show the prices of 1, 2, and 3 pounds of tomatoes.

pounds of tomatoes
0   *1*   *2*   *3*   4

cost in dollars
0   *3.50*   *7*   *10.50*   14

½

3. 4 movie tickets cost $48. At this rate, what is the cost of:

a. 5 movie tickets? *$60*
b. 11 movie tickets? *$ 132*

$ Tickets
OR ×¼ ⌠48   4 ⌡ ×¼ OR ÷4
*   ÷4 ⌡   1 ⌡*
×5 ⌠$12⌡   ⌠$60⌡×11   5⌠$2 ×5⌡×11
* $132   11*

½

4. Priya bought these items at the grocery store. Find each unit price.

a. 12 eggs for $3. How much is the (cost per egg?)   *per $3/12 = .25 per egg*
b. 3 pounds of peanuts for $7.50. How much is the cost per pound?   *per $7.50/3 = 2.50 per pound*
c. 4 rolls of toilet paper for $2. How much is the cost per roll?   *per $2/4 = .50 per roll*
d. 10 apples for $3.50. How much is the cost per apple?   *$3.50/10 = .35 per apple*

4

NAME   DATE   PERIOD

5. Clare made a smoothie with 1 cup of yogurt, 3 tablespoons of peanut butter, 2 teaspoons of chocolate syrup, and 2 cups of crushed ice.

   a. Kiran tried to double this recipe. He used 2 cups of yogurt, 6 tablespoons of peanut butter, 5 teaspoons of chocolate syrup, and 4 cups of crushed ice. He didn't think it tasted right. Describe how the flavor of Kiran's recipe compares to Clare's recipe. *see below*

   b. How should Kiran change the quantities that he used so that his smoothie tastes just like Clare's?

   /2

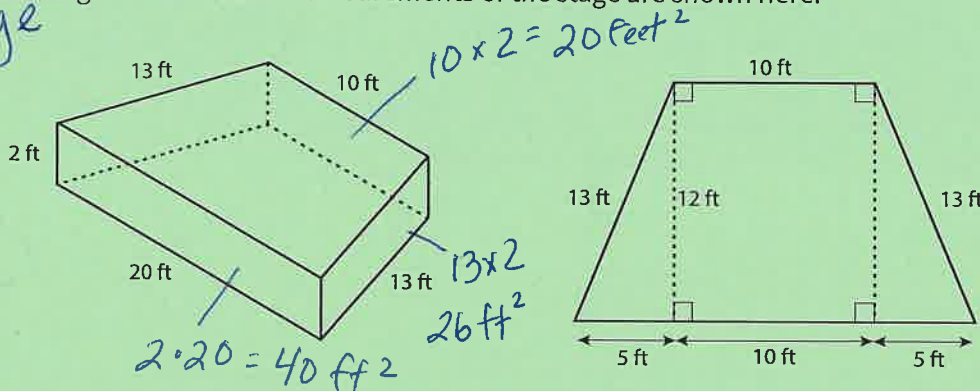   *he should use*
   4 tsp chocolate
   instead of 5

	Clare		Kiran	
Y	1	$\times 2 \to$	2	*doubled*
PB	3	$\times 2 \to$	6	*doubled*
CS	2	$\times \square \to$	5	*more than doubled*
I	2	$\times 2 \to$	4	*doubled*

6. A drama club is building a wooden stage in the shape of a trapezoidal prism. The height of the stage is 2 feet. Some measurements of the stage are shown here.

   Challenge

   $10 \times 2 = 20$ feet^2

   $2 \cdot 20 = 40$ ft^2   *13×2* *26 ft^2*

   Bonus
   +2

   What is the area of all the faces of the stage, excluding the bottom? Show your reasoning. If you get stuck, consider drawing a net of the prism.

   Top 15×12 $= 180$ ft^2
   2 Short Sides $2(13 \cdot 2)$ $= 52$ ft^2
   1 Long Side $2(20)$ $= 40$ ft^2
   1 Medium Side $2(10)$ $= 20$ ft^2
   ————————
   292 ft^2