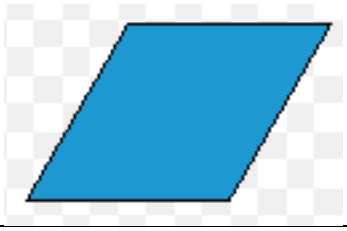
Problems for Unit 4 Lesson 5—Warm Up Tuesday 1/22/19

If the TRAPEZOID is the WHOLE:
Diego and Jada were asked "How many rhombuses are in a trapezoid?"



Who do you agree with and why? You can label on the diagrams up above to show your thinking.

Diego says, 1 1/3 If I put 1 rhombus on a trapezoid, the leftover shape is a triangle, which is 1/3 of the trapezoid."

OR

Jada says, "I think it's 1 ½ Since we want to find out 'how many rhombuses,' we should compare the leftover triangle to a rhombus. A triangle is ½ of a rhombus."

Select **all** equations that can be used to answer the question: "How many rhombuses are in a trapezoid?"

a. $\frac{2}{3} \div ? = 1$

b. $? \cdot \frac{2}{3} = 1$

c. $1 \div \frac{2}{3} = ?$

d. $1 \cdot \frac{2}{3} = ?$

e. $? \div \frac{2}{3} = 1$

For each situation, draw a diagram for the relationship of the quantities to help you answer the question. Then write a multiplication equation or a division equation for the relationship. Be prepared to share your reasoning.

1. The distance around a park is 3/2 miles. Noah rode his bicycle around the park for a total of 3 miles. How many times around the park did he ride?

2. You need ¾ yard of ribbon for one gift box. You have 3 yards of ribbon. How many gift boxes do you have ribbon for?

3. The water hose fills a bucket at gallon per minute. How many minutes does it take to fill a 2-gallon bucket?