

# Comparing and Scaling Investigation 4 Review

Name Key

Period \_\_\_\_\_

## Common Core State Standards

7.RP.3, 7.RP.1

### Learning Target

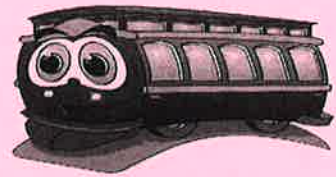
I can use proportional reasoning to solve real-world ratio problems, including those with multiple steps.  
(SolveRatio) (Proficiency Score): \_\_\_\_\_

For each problem, write a **PROPORTION**, then state your answer using a complete sentence. **YOU MUST LABEL!!!**

1. A trolley ride tours a local park. It covers a distance of 4 miles in 32 minutes.

a. What is the speed for the ride in miles per minute?

The speed of the trolley is  
0.125 miles per min.



b. What is the speed for the ride in miles per hour?

The speed of the trolley is 7.6 miles per hour.

c. How far does the train travel in 120 minutes?

The train can travel 15 miles in 120 minutes.

2. There are 81 almonds in a 9-ounce bag.

a. How many almonds would be in a 19-ounce bag?

There would be 171 almonds in a 19-ounce bag.



b. What is the number of almonds per ounce?

There are 9 almonds in 1 ounce.

(9 almonds per ounce)

c. How many ounces does each almond weigh?

Each almond weighs  $\frac{1}{9}$  (.1) of an ounce.

( $\approx 0.11$  of an ounce)

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3. Ezra makes \$380 in 4 days in his job at a law firm.

- a. At this rate, how much does he make in a year? (365 days in 1 year)  
**Write two different proportions and use one to solve the problem.**

I).

Ezra makes \$34,675 in one year.

II).

- b. How much does Ezra make in a week?

Ezra makes \$665 per week.

4. Kay planted flower seeds in her garden. The package said 85% of the seeds would grow into flowers. Kay had 119 flowers that bloomed. About how many seeds did **not** bloom? (Hint- find the total number of flowers)

About 21 seeds did not grow into flowers.



5. You're at the mall and you walk into Macys. There it is! The Gucci shirt you've been dreaming of. AND it's your lucky day! The original price of the shirt was \$159, but there is a sign in the store that says "34% off everything in the store to celebrate our 134<sup>th</sup> year!" Use a proportion to find the sales price of the shirt.

The Gucci shirt costs \$104.94 on sale.