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STUDY GUIDE: Post Assessment
PART ONE

1. Multiply or divide. Show your thinking.

a. $\frac{1}{2} \times \frac{1}{6}$

b. $\frac{2}{5}$ of $\frac{1}{2}$

c. $4 \div \frac{1}{3}$

d. $\frac{1}{4} \div 3$

5. Anna had a jar that contained $\frac{1}{6}$ quarts of whipping cream. She used $\frac{2}{5}$ of the jar for baking. How much whipping cream did she use baking?

6. Anna's mom used $\frac{1}{3}$ of a tablespoon of vanilla to bake 2 batches of cupcakes. If she used an equal amount of vanilla in each batch, how much vanilla did she use for 1 batch?

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7. Anna's mom stored some of the sugar in a container that held $\frac{4}{5}$ of a pound. She used half of this amount to sweeten tea. How much sugar, in pounds, was used in the tea?

8. Anna uses some of her scented oils to make lotion. If each bottle of lotion requires $\frac{1}{8}$ teaspoon, and she uses a total of 5 teaspoons, how many bottles of lotion does she make?

4. Daniel claims that multiplication always makes a number bigger. He gave the following examples:

- If I take 3, and I multiply it by 4, I get 12, which is bigger than 3.
- If I take $\frac{1}{3}$ and I multiply it by 2 (whole number), I get $\frac{2}{3}$, which is bigger than $\frac{1}{3}$.

Daniel's reasoning is incorrect. Give an example that proves he is wrong, and explain his mistake using pictures, words, or numbers.

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PART TWO

1. Multiply or divide using any method.

a. 1.3 × 24

b. 1.3 × 2.4

c. 24 ÷ 0.04

d. 2.4 ÷ 0.4

2. The fifth grade class is going to have a lock-in. The lock-in has to be monitored by teachers for 11 hours. Three teachers are going to split the duty equally. How long will each teacher spend monitoring the lock-in? **Express your answer in hours as a decimal.**

3. Troy buys 3.2 pounds of sardines. If each pound of sardines costs $5.42, how much will he pay for the sardines?

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Level 4

Professor Snape's fifth-grade class is playing a challenge game. Each student has an index card with a fraction or a decimal written on it. The chart below shows six students' index card numbers.

Student	Index Card Number
Harry	$2\frac{1}{4}$
Hermione	37.3
Ron	2.54
George	$2\frac{3}{4}$
Fred	$5\frac{4}{5}$
Jenny	0.265

Professor Snape asks students to pair up and either multiply or divide their numbers.

a. Hermione and Jenny pair up and choose to multiply their numbers. What is the product of Hermione and Jenny's numbers?

b. Next, Hermione pairs up with Ron. They divide Hermione's number by Ron's number.

c. Fred and Harry team up to multiply their numbers. What is their product?

d. Professor Snape asks George and Jenny to solve the following division problem. What is the correct quotient?

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$\frac{3}{5} \div \frac{1}{4}$