

I'm not a robot!



In grade 6, students have recognized several ways in which mixtures can be separated. In this lesson, students will experience a way of separating the components of a mixture that they may not have been working with — mixtures. They may have seen mixtures such as sand and water, or salt and water, such as those in the table on the right. This time, however, the students will be separating mixtures that are composed of more than two components. They will learn how to separate/recover by using a process called fractionation, and then dilute and dilute again until they have a very pure sample.

The students will be asked to make up a homogeneous mixture. This mixture will be separated because the sample is homogeneous. This activity will help them "see" the components of their mixture and how they can be separated. The students will be asked to taste a portion of the mixture and may refer to this product as "diluted". The students will respond out loud to the words during each cycle.

**Important:**

- Students will be using the same mixture in the "Table Salt" lesson.
- Make sure to use glasses that were not previously used for harsh chemicals. The students will be asked to taste a portion of the dilution.

## Student Companion



# Geometry

Common Core

PEARSON

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Review Quiz, Lesson 6-1, Patterns For Dividing With Decimals

**Directions:** Find each quotient by using Patterns and Mental Math to divide.

1)  $136.5 \div 10 =$  \_\_\_\_\_      2)  $289.66 \div 10 =$  \_\_\_\_\_

$136.5 \div 100 =$  \_\_\_\_\_

$289.66 \div 100 =$  \_\_\_\_\_

$136.5 \div 1000 =$  \_\_\_\_\_

$289.66 \div 1000 =$  \_\_\_\_\_

3)  $15.25 \div 10 =$  \_\_\_\_\_      4)  $1.275 \div 10 =$  \_\_\_\_\_

$15.25 \div 100 =$  \_\_\_\_\_

$1.275 \div 100 =$  \_\_\_\_\_

$15.25 \div 1000 =$  \_\_\_\_\_

$1.275 \div 1000 =$  \_\_\_\_\_

5)  $136.5 \div 10^2 =$  \_\_\_\_\_      6)  $289.66 \div 10^2 =$  \_\_\_\_\_

$136.5 \div 10^3 =$  \_\_\_\_\_

$289.66 \div 10^3 =$  \_\_\_\_\_

7) Any number to the power of 0 gives you an answer of \_\_\_\_\_.

8) When dividing by a power of ten, we always move the decimal to the \_\_\_\_\_.

### Review Quiz, Lesson 6-2, Estimate Decimal Quotients

**Directions:** Find the quotient by estimating.

1)  $45.73 \div 6.92 =$  \_\_\_\_\_      2)  $82.117 \div 7.92 =$  \_\_\_\_\_

3)  $156.4 \div 14.9 =$  \_\_\_\_\_      4)  $132.1 \div 7.32 =$  \_\_\_\_\_

5)  $62.09 \div 7.6 =$  \_\_\_\_\_      6)  $496.11 \div 7.12 =$  \_\_\_\_\_



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