

Name \_\_\_\_\_

Date \_\_\_\_\_

**Decimal Notation for Fractions (10 or 100 Denominators) - Guided Lesson Explanation**

**Explanation to #1**

a) To complete this, just calculate the quotient that the fraction presents:

$$8 \overline{) 10}$$

Answer is: 0.8.

b) We use the same exact strategy here:

$$44 \overline{) 100}$$

Answer is: 0.44

**Explanation to #2**

Step 1a) Write down the decimal divided by 1, like this:  $\frac{\text{decimal}}{1}$

Multiply both top and bottom by 10 for every number after the decimal point. (For example, if there are two numbers after the decimal point, then use 100, if there are three then use 1000, etc.)

0.7 (In this case the decimal is one place off.)

Step 2a) So for the decimal 0.7, the fraction would be  $\frac{7}{10}$ .

Step 1b) Write down the decimal divided by 1, like this:  $\frac{\text{decimal}}{1}$

Multiply both top and bottom by 10 for every number after the decimal point. (For example, if there are two numbers after the decimal point, then use 100, if there are three then use 1000, etc.)

0.23 (In this case, the decimal is two places off.)

Step 2b) So for the decimal 0.23, the fraction would be  $\frac{23}{100}$ .



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### Explanation to #3

Step 1a) It is clear that they want to know Where would 0.32 be on the numbers line below?

Step 2) Draw a number line with the number. As, 0.32 lies in between 0.3 to 0.4. So, we will put a line or circle in between 0.3 to 0.4 accordingly. Since the hundredths column (2) is less than 5, the position is closer to the 0.3 mark.

