# Warm Up

1. 
$$\frac{2}{5} - \frac{1}{20}$$

$$5. \ \frac{13}{16} - \frac{13}{16}$$

9. 
$$\frac{11}{20} - \frac{1}{2}$$

$$2. \ \frac{17}{19} - \frac{14}{19}$$

6. 
$$\frac{9}{11} - \frac{2}{11}$$

10. 
$$\frac{5}{12} - \frac{1}{3}$$

# Warm Up Answers

1. 
$$\frac{2}{5} - \frac{1}{20}$$

$$= \frac{7}{20}$$

5. 
$$\frac{13}{16} - \frac{13}{16}$$

$$= 0$$

9. 
$$\frac{11}{20} - \frac{1}{2}$$

$$= \frac{1}{20}$$

$$2. \frac{17}{19} - \frac{14}{19} \\
= \frac{3}{19}$$

6. 
$$\frac{9}{11} - \frac{2}{11} = \frac{7}{11}$$

$$10. \ \frac{5}{12} - \frac{1}{3} \\
= \frac{1}{12}$$

### Homework Answers

#### 2.5 Record and Practice Journal

Multiply. Use estimation to check your answer.

1. 0.5 × 4 2 2. 3.8 × 6 22.8

3. 2.1 × 11 23.1

4. 0.8 × 0.6 5. 0.003 × 0.09 6. 8.91 ×1.26

0.48

0.00027

11.2266

7. You earn \$7.80 an hour working as a dog sitter. You work 12.5 hours during the weekend. How much money do you make?

\$97.50

8. You use a microscope to look at bacteria that is 0.0034 millimeter long. The microscope magnifies the bacteria 430 times. How long does the bacteria appear to be when you look at it through the microscope?

1.462 millimeters

Lesson 2.6 October 20, 2014

## Essential Question:

How can you divide decimals?

Lesson 2.6

October 20, 2014

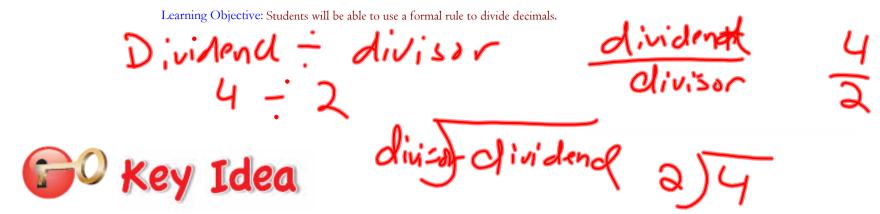
# Lesson Objective:

Students will be able to:

use a formal rule to divide decimals.

### Self-Evaluation Scale

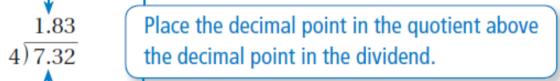
Score	Description
4	I can teach other students how to use a formal rule to divide decimals.
3	I can use a formal rule to divide decimals.
2	I recognize, but still need help to use a formal rule to divide decimals.
1	I do not know how to use a formal rule to divide decimals.



#### **Dividing Decimals by Whole Numbers**

**Words** Place the decimal point in the quotient above the decimal point in the dividend. Then divide as you would with whole numbers. Continue until there is no remainder.

**Numbers** 



#### **Dividing Decimals by Whole Numbers**

a. Find  $7.6 \div 4$ .

Estimate  $8 \div 4 = 2$ 

1.9 Place the decimal point in the quotient above 4)7.6 the decimal point in the dividend.  $\frac{-36}{0}$ 

So,  $7.6 \div 4 = 1.9$ .

Reasonable?  $1.9 \approx 2$ 

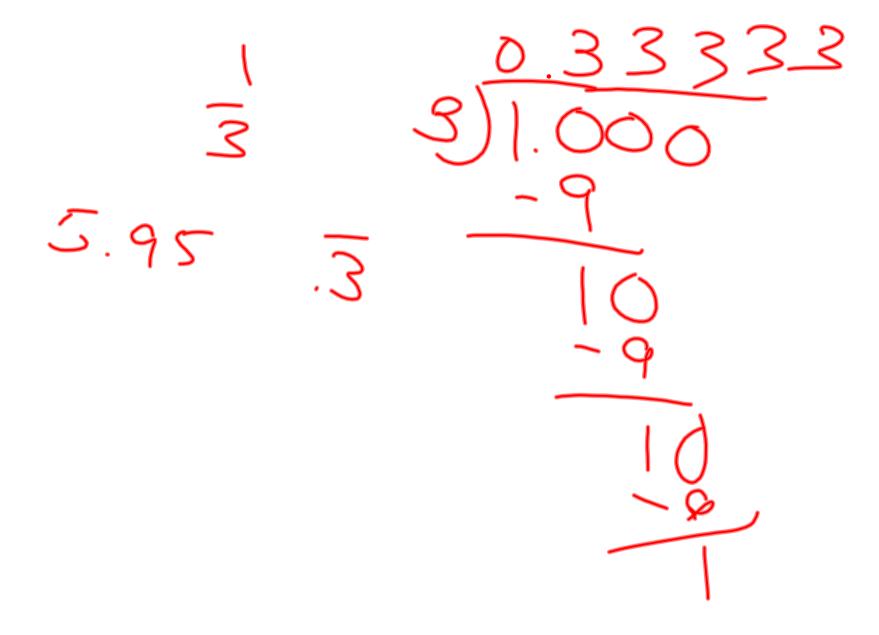


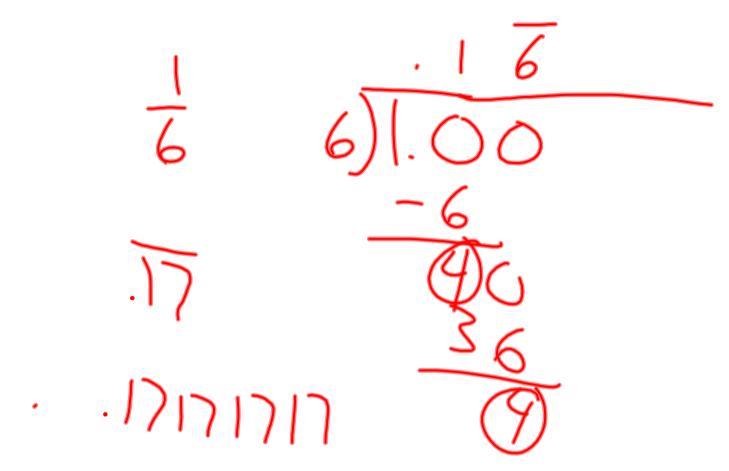
b. Find  $4.38 \div 12$ .

0.365 Place the decimal point in the quotient above 12)4.380 the decimal point in the dividend. -3678 Insert a zero and continue to divide. <u>- 72</u>

So,  $4.38 \div 12 = 0.365$ . Check  $0.365 \times 12 = 4.38$ 



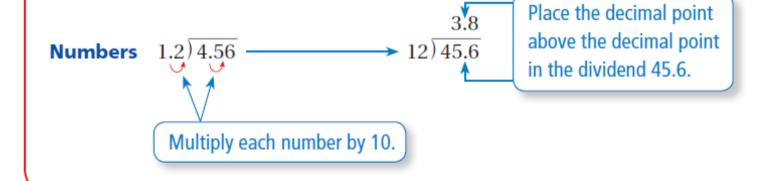




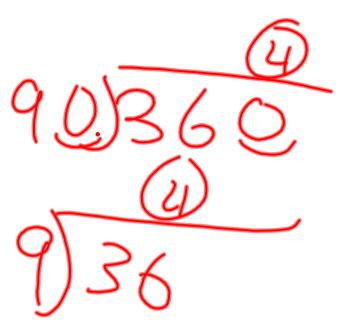


#### **Dividing Decimals by Decimals**

**Words** Multiply the divisor *and* the dividend by a power of 10 to make the divisor a whole number. Then place the decimal point in the quotient and divide as you would with whole numbers. Continue until there is no remainder.

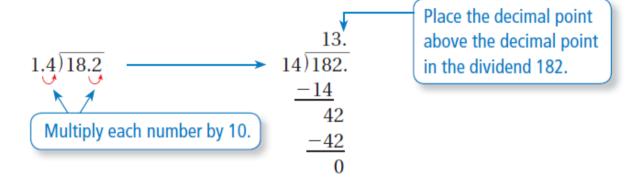


1)10 (00) 1000



### 2 Dividing Decimals

a. Find 18.2 ÷ 1.4.



- So,  $18.2 \div 1.4 = 13$ .
- Check  $13 \times 1.4 = 18.2$

b. Find  $0.273 \div 0.39$ .

$$0.39)0.273 \longrightarrow 39)27.3$$

$$0.7$$

$$0.39)0.273$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

$$0.7$$

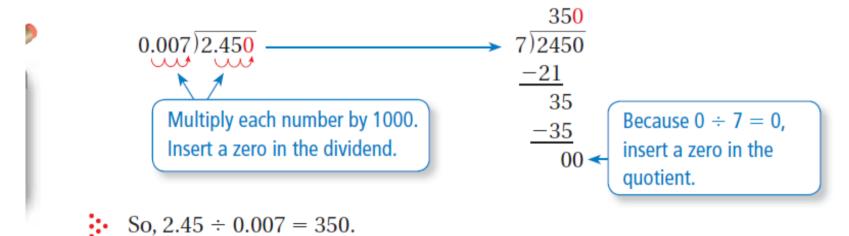
$$0.7$$

$$0$$
Multiply each number by 100.

- So,  $0.273 \div 0.39 = 0.7$ .
- Check  $0.7 \times 0.39 = 0.273$

### Inserting Zeros in the Dividend and the Quotient

Divide  $2.45 \div 0.007$ .



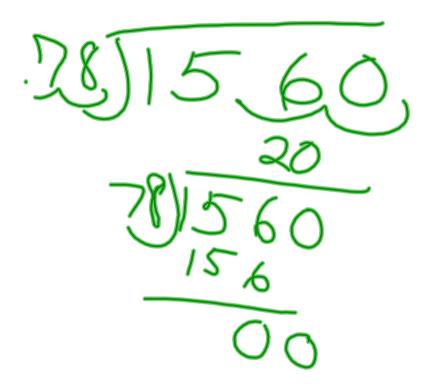
### OYO!

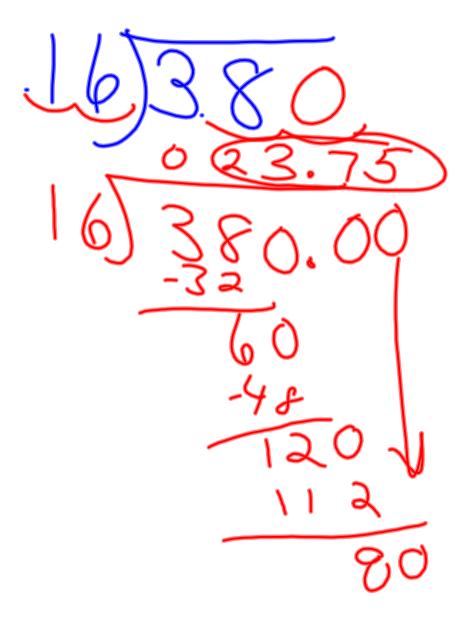
### Divide. Check your answer.

**11.** 
$$3.8 \div 0.16$$

**12.** 
$$15.6 \div 0.78$$

**14.** 
$$0.18 \div 0.003$$





# Assignment

### Complete problems:

14, 16, 26, 27, 32, 36, 42, 44, 48, 56, 59, & 60

on pages 97 - 99 in your Big Ideas Text Book.

Lesson 2.6 October 20, 2014

## Essential Question:

How can you divide decimals?

Lesson 2.6

October 20, 2014

# Lesson Objective:

Students will be able to:

use a formal rule to divide decimals.

### Self-Evaluation Scale

Score	Description
4	I can teach other students how to use a formal rule to divide decimals.
3	I can use a formal rule to divide decimals.
2	I recognize, but still need help to use a formal rule to divide decimals.
1	I do not know how to use a formal rule to divide decimals.

### Homework

In your Big Ideas Record and Practice Journal page 54.