

$$\begin{array}{l} 6 \div \frac{1}{2} \\ \frac{6}{1} \cdot \frac{2}{1} = \frac{12}{1} \end{array}$$

(12)

$$\begin{array}{l} 2 \div \frac{1}{4} \\ \frac{2}{1} \cdot \frac{4}{1} = \frac{8}{1} \end{array}$$

(8)

$$\begin{array}{l} 5 \div \frac{1}{3} \\ \frac{5}{1} \cdot \frac{3}{1} = \frac{15}{1} \end{array}$$

(15)

# Hopping on the Number Line

## Lesson 3-2

DATE

TIME

### Math Message

Fido the flea is hopping along a number line to explore new destinations. Fido always starts at 0 (Home) and faces in the positive direction. Fido is at 0 (Home) on the number line.

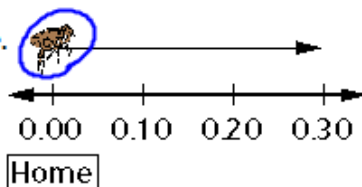
- 1 Fido is heading for the Flea Flag shop at 0.24 on the number line.

Three possible hop combinations to get there:

**Hop Set 1:** 2 hops 0.10 long, then 4 hops 0.01 long

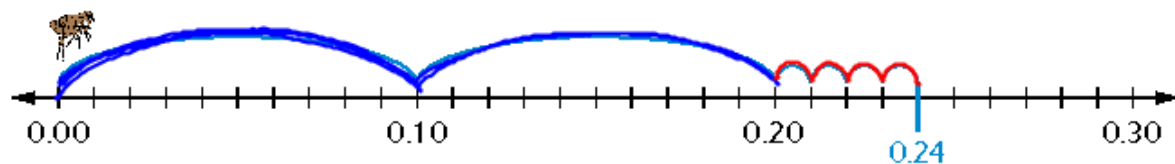
**Hop Set 2:** 1 hop 0.10 long, then 14 hops 0.01 long

**Hop Set 3:** 24 hops 0.01 long

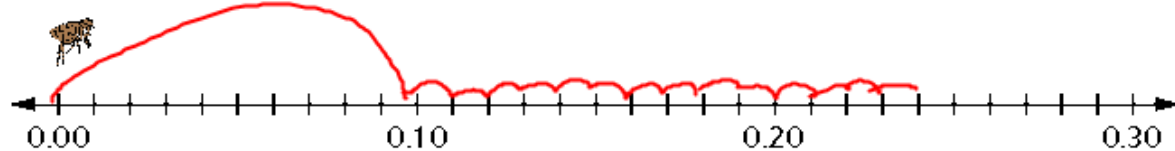


Hop Set 1 is drawn for you. Draw the other two on the number lines below.

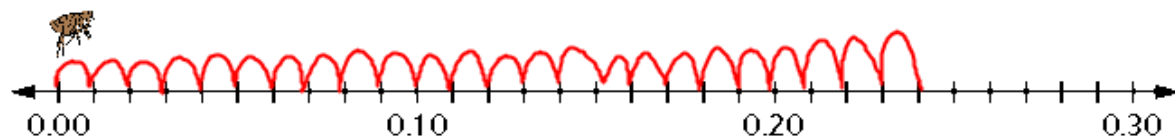
#### Hop Set 1:



#### Hop Set 2:



#### Hop Set 3:



- 2 Write a number sentence to represent each hop set. The first one is done for you.

**Hop Set 1:**  $(2 * 0.1) + (4 * 0.01) = 0.24$

**Hop Set 2:**  $(1 * .1) + (14 * .01) = .24$

**Hop Set 3:**  $(24 * .01) = .24$

- 3 Describe how the three hop sets are similar and how they differ.

---



---

# Hopping on the Number Line (continued)

## Lesson 3-2

DATE

TIME

- 4 Fido goes to his friend Flip's house to show him what he bought at the Flea Flag shop. The lengths of Fido's hops are always 1 tenth, 1 hundredth, or 1 thousandth.

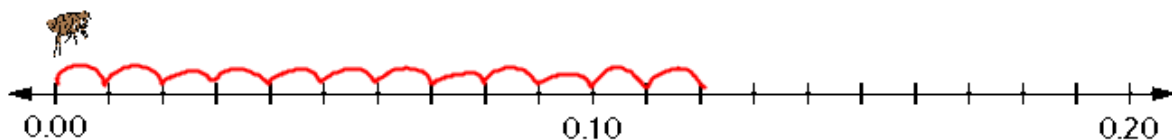
Fido starts at 0. Flip's house is at 0.12.

Hop Set 1 takes a total of 12 hops to reach 0.12.

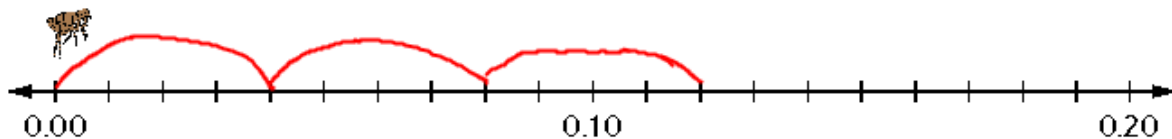
Hop Set 2 takes a total of 3 hops to reach 0.12.

Show these two different hop sets on the number lines below.

### Hop Set 1:



### Hop Set 2:



- 5 Use expanded form or a single product to write a number sentence for each hop set to 0.12.

**Hop Set 1:** \_\_\_\_\_

**Hop Set 2:** \_\_\_\_\_

- 6 Flip and Fido hear about a new Flea Fun House opening at 0.804 on the number line. Fido uses place value to efficiently hop from 0 to 0.804. He begins with long hops first. Describe Fido's hop set.

Number sentence: \_\_\_\_\_

- 7 Flip tells Fido that he could make short hops first and then make long hops. Write a number sentence that reverses the hop set you recorded in Problem 6.

\_\_\_\_\_

# Zooming In on Number Lines

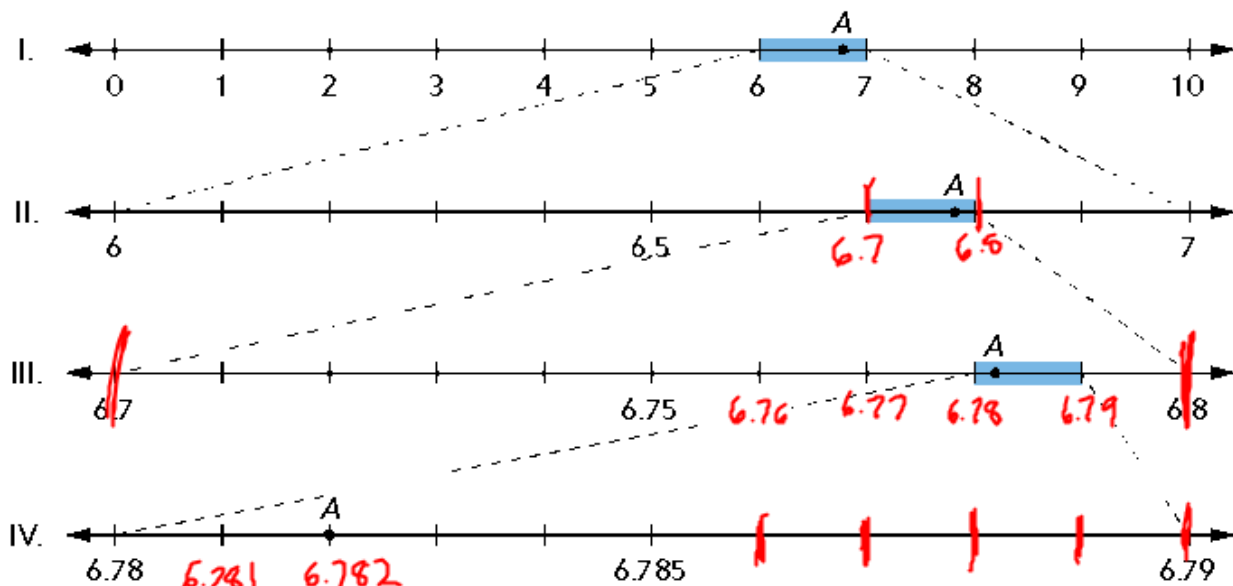
## Lesson 3-2

DATE

TIME

In Lesson 1-12, you *zoomed in* to find fractions between fractions. This process is even easier when you want to find decimals between decimals.

- 1 This series of four number lines *zooms in* on point A.



- a. Look at each number line separately and estimate where point A is located on each.

I. 6.9

II. 6.78

III. 6.782

IV. 6.782

- b. How far apart are the tick marks on each number line?

I. \_\_\_\_\_

II. \_\_\_\_\_

III. \_\_\_\_\_

IV. \_\_\_\_\_

- c. Use the number lines to find three numbers between 6.7 and 6.8:

\_\_\_\_\_

- d. Use the number lines to find three numbers between 6.78 and 6.79:

\_\_\_\_\_

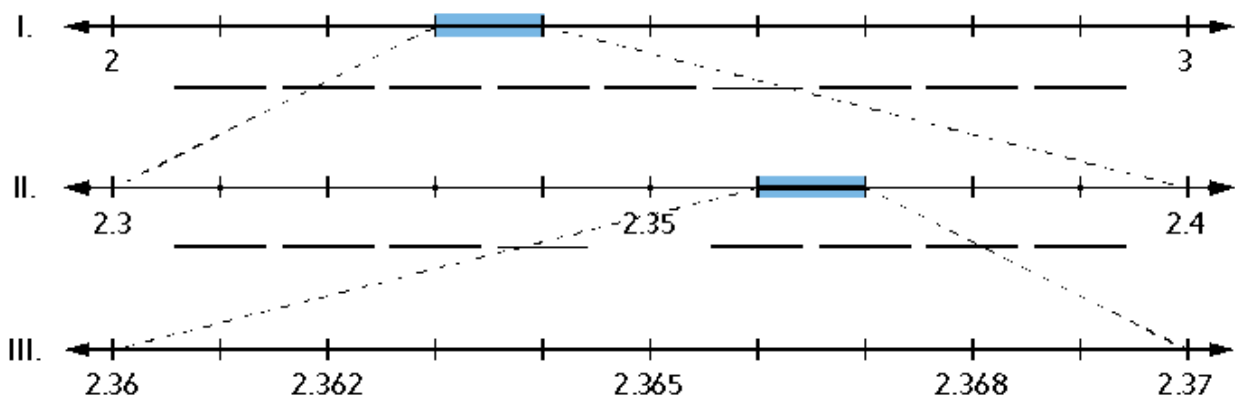
# Zooming In on Number Lines (continued)

## Lesson 3-2

DATE

TIME

- 2 a. Label the missing numbers on the number lines below.



- b. Place point  $F$  at about 2.367 on each number line.

- c. Write 2.367 in expanded form as the sum of products with decimals.

\_\_\_\_\_

- d. Write a number greater than 2.367 and less than 2.368.

*Hint:* Think about what the next number line would look like. \_\_\_\_\_

- e. Explain how the expanded form for your number in Problem 2d would be similar to or different from the expanded form you wrote in Problem 2c.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- 3 Find three numbers between each of the decimal pairs below.  
 The number lines from Problem 2a may be helpful.

a. 2.1 and 2.2 \_\_\_\_\_

b. 2.34 and 2.35 \_\_\_\_\_

- 4 Circle the numbers below that are between 2.361 and 2.362.

2.3605      2.36182      2.36175      2.3625      2.3622      2.3615

# Fraction Practice

## Lesson 3-2

DATE \_\_\_\_\_

TIME \_\_\_\_\_

SRB  
179, 189,  
190

Solve.

- 1 a. GCF (12, 18) = \_\_\_\_\_      b. Write  $\frac{12}{18}$  in simplest form. \_\_\_\_\_
- 2 a. LCM (12, 18) = \_\_\_\_\_
- b. Rename  $\frac{7}{12}$  and  $\frac{5}{18}$  with a common denominator. \_\_\_\_\_
- 3 To fill a hummingbird feeder, you mix  $\frac{1}{4}$  cup of sugar with 1 cup of water. Zahlia has  $3\frac{3}{4}$  cups of sugar. How many hummingbird feeders can she fill? How much water will she need?

Number sentence: \_\_\_\_\_

Solution: \_\_\_\_\_

- 4 Holly has  $4\frac{1}{2}$  pounds of potting soil. Jasper has  $3\frac{2}{3}$  pounds of potting soil. They need  $\frac{1}{9}$  pounds of potting soil for planting tomatoes. How much more do they need?

Number sentence: \_\_\_\_\_

Solution: \_\_\_\_\_

- 5 Raymond has 3 pounds of birdseed. He has 5 bird feeders in his yard. How much seed can he put in each feeder?

Number sentence: \_\_\_\_\_

Solution: \_\_\_\_\_

- 6 a. A bag of 12 oranges weighs  $4\frac{1}{2}$  pounds. If the oranges are about the same size, about how much does each orange weigh?

Number sentence: \_\_\_\_\_

Solution: \_\_\_\_\_

- b. How much would half an orange weigh?

Number sentence: \_\_\_\_\_

Solution: \_\_\_\_\_



1 Multiply.

- a.  $20 * 80 =$  \_\_\_\_\_
- b.  $25 * 300 =$  \_\_\_\_\_
- c. \_\_\_\_\_  $= 1,350 * 20$
- d. \_\_\_\_\_  $= 6 * 7,400$

 SRB  
133

2 Jill buys a T-shirt for \$12.79 and a pair of socks for \$6.75 at the mall.

- a. How much does she spend?  
Number model: \_\_\_\_\_  
Solution: \_\_\_\_\_
- b. If she pays with a \$20.00 bill, how much change will she get?  
Number model: \_\_\_\_\_  
Solution: \_\_\_\_\_

 SRB  
133-138,  
145-148

3 Tell whether or not each expression is the product of two factors.

- $8 * 4$       yes    no \_\_\_\_\_
- $25 * 105 - 37$     yes    no \_\_\_\_\_
- $(3 + 7) * (4 + 11)$     yes    no \_\_\_\_\_
- $12 * (38 - 25)$       yes    no \_\_\_\_\_

 SRB  
160

4 Write the reciprocal of each number.

- a. 5      \_\_\_\_\_
- b.  $\frac{2}{3}$       \_\_\_\_\_
- c.  $1\frac{1}{4}$       \_\_\_\_\_
- d.  $\frac{7}{6}$       \_\_\_\_\_

 SRB  
196

5 Subtract.

$$\frac{23}{10} - \frac{1}{5} = ?$$

Circle ALL that apply.

- A.  $\frac{21}{10}$
- B.  $2\frac{1}{10}$
- C.  $\frac{22}{5}$
- D.  $2\frac{1}{5}$

 SRB  
195

6 To make a certain shade of paint, an artist needs to mix yellow paint with blue paint at a ratio of 3 to 5. He needs 32 ounces of paint.

How much yellow paint should he buy?  
*Hint: A tape diagram might be helpful.*

Solution: \_\_\_\_\_

 SRB  
45-48

P113-116

The image shows the handwritten text "P113-116" in red ink. Below the text, there are several large, overlapping, and somewhat chaotic scribbles, also in red ink, which appear to be a continuation of the same line or a separate set of marks.