Labsheet 3.4   **Repartitioning Number Lines – pages 76-78**

Ⓐ 1. Use the number line and the tenths strip below. Which of the points $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, and $\frac{4}{4}$ can you name using the tenths strip?

2. Use a hundredths strip to name the same points.

3. Write each fraction above as a decimal.

Fraction	$^1/_4$	$^2/_4$	$^3/_4$	$^4/_4$
Decimal				

Fraction	Equivalent Fraction **tenths**	Equivalent Decimal **tenths**	Equivalent Fraction **hundredths**	Equivalent Decimal **hundredths**
$1/3$				
$1/5$				
$2/5$				
$2/6$				
$3/6$				
$1/8$				
$63/50$				
$112/200$				

B2.   Name two other fractions that are easy to write as equivalent decimals, and two that are not easy to write as decimals.   Explain.

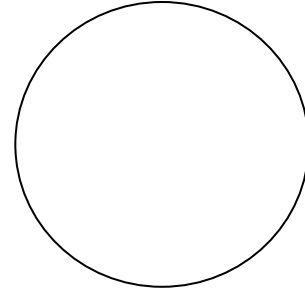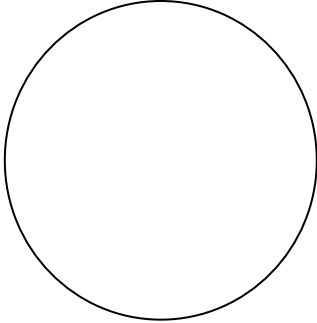B3. Which decimal is closest to $1/3$?   0.3   0.33   0.333

        Are any of these numbers: 0.3, 0.33, 0.333   exactly $1/3$?

C. Find decimal equivalents for each.

Fraction	Decimal	%
- $^2/_5$		
- $^3/_5$		
- $^4/_5$		
- $^6/_5$		

Fraction	Decimal	%
$^2/_8$		
$^3/_8$		
$^4/_8$		
$^5/_8$		
$^6/_8$		
$^7/_8$		

Fraction	Decimal	%
$^1/_3$		
$^2/_3$		
$^3/_3$		
$^4/_3$		
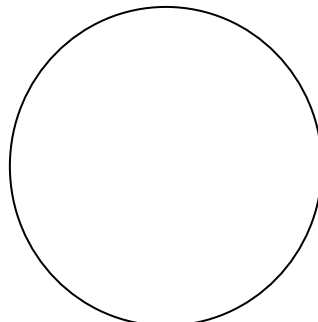
For each number line below, determine the value of the "?"

0.8 ? 0.9

0.8   ?   0.9

⁻0.9   ?   ⁻0.8

0.499   ?   0.501
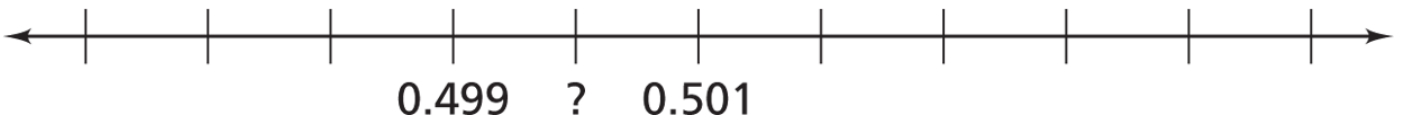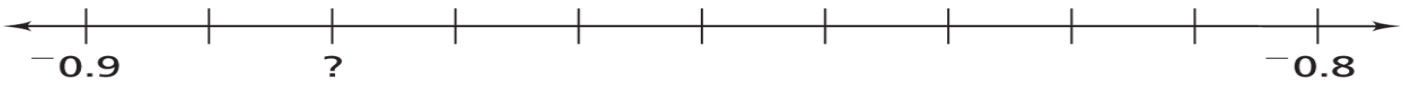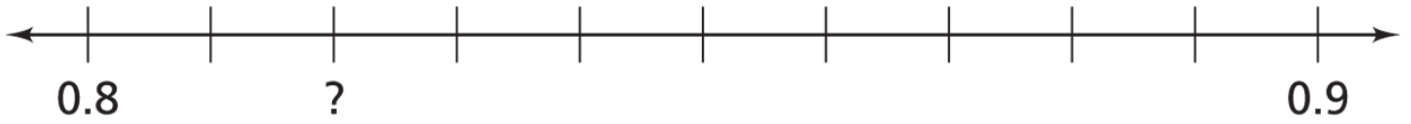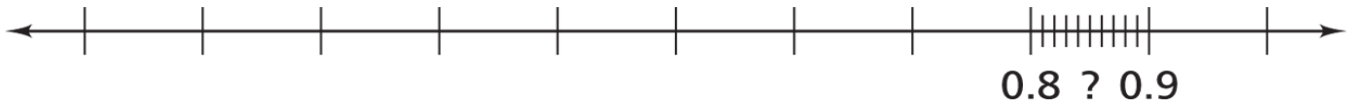
Write the decimal equivalent for each fraction.

-½ = _____   ⅓= _____   -¼= _____   ⅕= _____

⅙= _____   -⅛= _____   ¹/₁₀= _____

Place each number above on a number line.

Show how the fractions ¼ and ¹/₈ compare.

(number line)
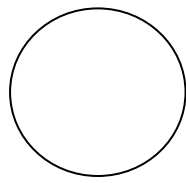
Show how the decimal equivalents of $-\frac{1}{4}$ and $-\frac{1}{8}$ compare.

(number line)

Show how the fractions ¹/₃ and ¹/₆ compare.

(rectangle divided into sections)

(number line)

Show how the fractions $-\frac{1}{3}$ and $-\frac{1}{6}$ compare.

(number line)

Which fraction benchmark is closest to each of the following decimals? (Benchmark fractions are commonly used and known fractions such as $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ etc....)

a. 0.18= _____

b. -0.46= _____

c. -0.225= _____

d. 0.099= _____

Circle the larger number in each set.

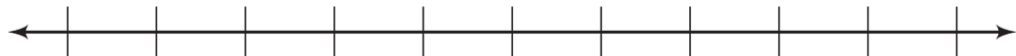0.1 and 0.9   0.3 and 0.33   0.25 and 0.250   0.12 and 0.125

0-0.1 and 0.1   -0.3 and -0.27

Place each of the decimals on a number line and list decimals between them.

0.12 and 0.125

(number line)

-0.3 and -0.27

(number line)