

Name _____

Date _____

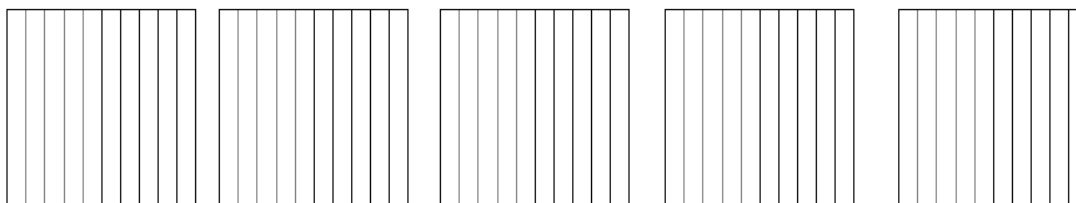
1. Match each amount expressed in unit form to its equivalent fraction and decimal forms.

3 tenths	$\frac{5}{10}$	0.2
5 tenths	$\frac{9}{10}$	0.6
6 tenths	$\frac{2}{10}$	0.3
9 tenths	$\frac{3}{10}$	0.5
2 tenths	$\frac{6}{10}$	0.9

Note: Lines connect '3 tenths' to $\frac{3}{10}$ and $\frac{3}{10}$ to 0.3.

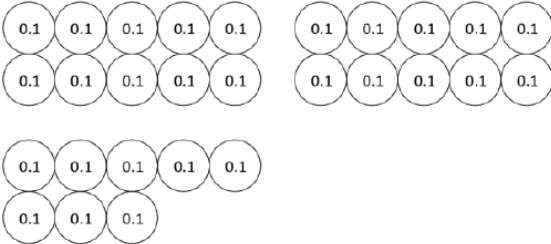
2. Write the following in decimal form and as a mixed number. Shade the area model to match.

a. 3 ones and 7 tenths = _____ = _____




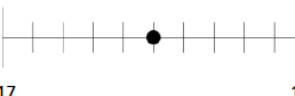



How much more is needed to get to 5? _____

3. Circle groups of tenths to make as many ones as possible.

<p>a. How many tenths in all?</p>  <p>There are _____ tenths.</p>	<p>Write and draw the same number using ones and tenths.</p> <p>Decimal Form: _____</p> <p>How much more is needed to get to 3? _____</p>
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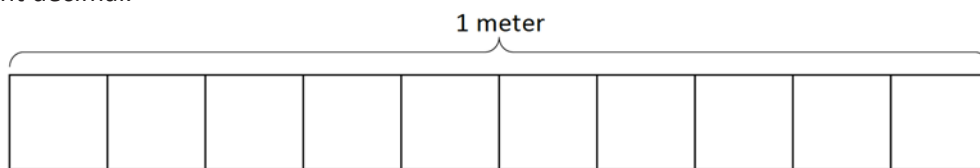
4. Draw disks to represent 1 ten 7 ones 5 tenths. Then show the expanded form of the number in fraction form and decimal form.

5. Complete the chart.

Point	Number Line	Decimal Form	Mixed Number (ones and fraction form)	Expanded Form (fraction or decimal form)	How much to get to the next one?
a.			$3 \frac{9}{10}$		0.1
b.					
c.				$(7 \times 10) + (4 \times 1) + (7 \times \frac{1}{10})$	
d.			$22 \frac{2}{10}$		
e.				$(8 \times 10) + (8 \times 0.1)$	

6. Draw a number bond pulling out tenths from hundredths. On the meter stick, shade the amount shown. Then write the equivalent decimal.

$$\frac{19}{100} \text{ m}$$

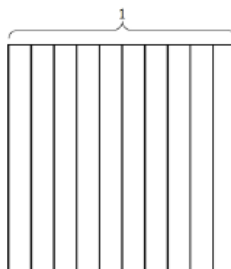


7. Complete the number sentence. Shade the equivalent amount on the area model, drawing horizontal lines to make hundredths.

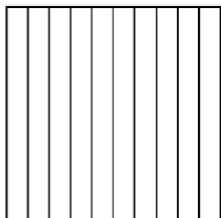
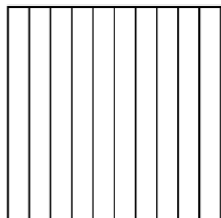
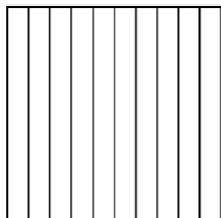
a. 37 hundredths = _____ tenths + _____ hundredths

Fraction form: _____

Decimal form: _____



8. Shade the area models to represent $2\frac{47}{100}$, drawing horizontal lines to make hundredths as needed. Locate the value of the mixed number on the number line and mark it with a point. Record the mixed number as a decimal.



9. Use the place value chart to answer the following questions. Express the value of the digit in unit form.

hundreds	tens	ones	.	tenths	hundredths
4	1	6	.	8	3

- a. The digit _____ is in the hundreds place. It has a value of _____.
- b. The digit _____ is in the tens place. It has a value of _____.
- c. The digit _____ is in the tenths place. It has a value of _____.
- d. The digit _____ is in the hundredths place. It has a value of _____.

10. Write each number in expanded form, using both decimal and fraction notation. The first one has been done for you.

Decimal and Fraction Form	Expanded Form	
	Fraction Notation	Decimal Notation
$15.43 = 15 \frac{43}{100}$	$(1 \times 10) + (5 \times 1) + (4 \times \frac{1}{10}) + (3 \times \frac{1}{100})$ $10 + 5 + \frac{4}{10} + \frac{3}{100}$	$(1 \times 10) + (5 \times 1) + (4 \times 0.1) + (3 \times 0.01)$ $10 + 5 + 0.4 + 0.03$
$21.4 = \underline{\hspace{2cm}}$		
$38.09 = \underline{\hspace{2cm}}$		

11. Complete the chart. The first one has been done for you.

Decimal	Mixed Number	Tenths	Hundredths
2.1	$2 \frac{1}{10}$	21 tenths $\frac{21}{10}$	210 hundredths $\frac{210}{100}$
4.2			
8.4			
10.2			
75.5			

12. a. Examine the mass of each item as shown below on the 1 kilogram scales. Put an X over the items that are heavier than the avocado.



0.2 kg



0.12 kg



0.6 kg



0.61 kg

- b. Express the mass of each item on the place value chart.

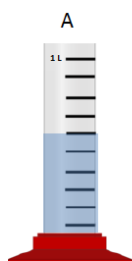
	ones (kilograms)	tenths	hundredths
avocado			
apple			
bananas			
potato			

- c. Complete the statements below using the words *heavier than* or *lighter than* in your statements.

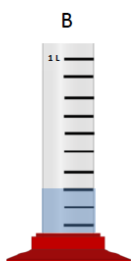
The avocado is _____ the apple.

The bunch of bananas is _____ the potato.

13. Record the volume of each cylinder on the place value chart.



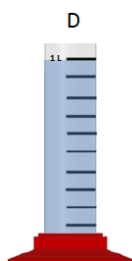
0.6 liter



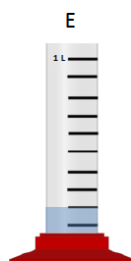
0.3 liter



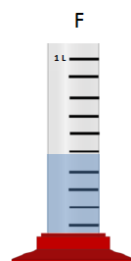
0.9 liter



0.97 liter



0.19 liter



0.48 liter

Cylinders	ones (Liters)	.	tenths	hundredths
A				
B				
C				
D				
E				
F				

Compare the values using $>$, $<$, or $=$.

a. 0.9 L _____ 0.6 L

b. 0.48 L _____ 0.6 L

c. 0.3 L _____ 0.19 L

- d. Write the volume of water in each beaker in order from least to greatest.

14. Solve by converting all addends to hundredths before solving.

a. 1 tenth + 3 hundredths = _____ hundredths + 3 hundredths = _____ hundredths

b. 5 tenths + 12 hundredths = _____ hundredths + _____ hundredths = _____ hundredths

15. Solve. Write your answer as a decimal.

a. $\frac{9}{10} + \frac{42}{100}$

b. $\frac{70}{100} + \frac{5}{10}$

16. Solve by rewriting the number sentence in fraction form. After solving, rewrite the complete number sentence in decimal form.

a. $6.4 + 5.3$	b. $6.62 + 2.98$
c. $2.1 + 0.94$	d. $2.1 + 5.94$

17. Use RDW to solve.

An apple orchard sold 140.5 kilograms of apples in the morning and 15.85 kilograms more apples in the afternoon than in the morning. How many total kilograms of apples were sold that day?

- 18.
- a. 3 quarters = \$____.____ $75¢ = \frac{\quad}{100}$ dollar
- b. 6 dimes = \$____.____ $60¢ = \frac{\quad}{10}$ dollar
- c. 26 pennies = \$____.____ $26¢ = \frac{\quad}{100}$ dollar

19. Solve. Give the total money in fraction and decimal form.

- a. 3 dimes and 8 pennies
- b. 3 quarters, 3 dimes, 14 pennies.

20. Solve. Express the answer as a decimal.

- a. 2 dollars 17 pennies + 4 dollars 2 quarters
- b. 3 dollars 8 dimes + 1 dollar 2 quarters 5 pennies

21. Jack has 2 quarters and 7 dimes. Jim has 1 dollar, 3 quarters, and 6 pennies. How much money do they have together? Write your answer as a decimal.

22. A pen costs \$2.29. A calculator costs 3 times as much as a pen. How much do a pen and a calculator cost together?