Summer Package
Grade 4 going to Grade 5
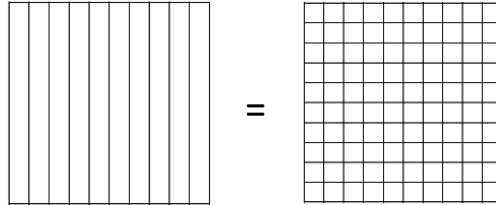(Week 4)
2018

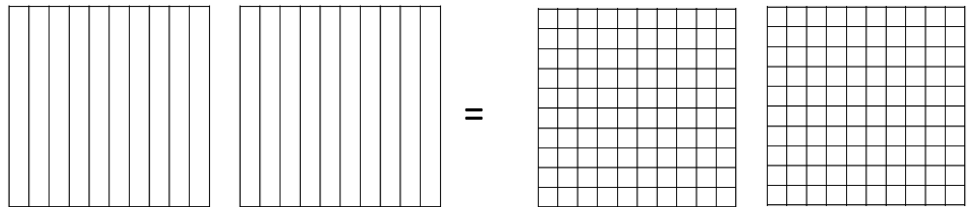# Week 4 ----Grade 4 going to Grade 5

Name _____   Date _____

1. Decompose each fraction into hundredths using area models. Then, write the equivalent number sentence using decimals.

   a. $\dfrac{8}{10} = $ ——   =

   b. $\dfrac{18}{10} = $ ——   =
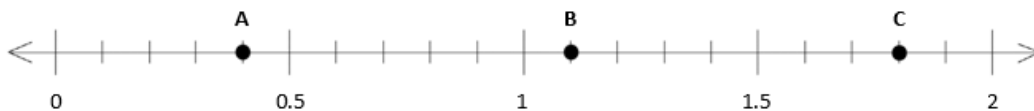
   Decompose each fraction into hundredths. Then, write the equivalent number sentence for each part using decimals.

   c. $\dfrac{2}{10} = $ ——   d. $\dfrac{5}{10} = $ ——
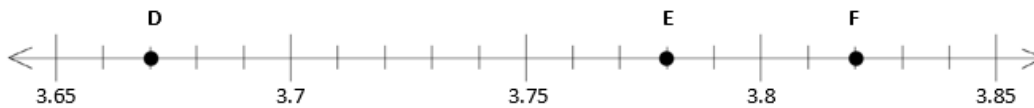
2. Several points are plotted on the number lines below. Identify the decimal number associated with each point.

   A. _____   B. _____   C. _____

   D. _____   E. _____   F. _____

3. Use the symbols >, =, or < to compare the following. Justify your conclusions using pictures, numbers, or words.

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a. 0.02 ◯ 0.22

b. 0.6 ◯ 0.60

c. 17 tenths ◯ 1.7

d. 1.04 ◯ $1\frac{4}{10}$

e. 0.38 ◯ $\frac{38}{10}$

f. 4.05 ◯ $4\frac{5}{100}$

g. 3 tenths + 2 hundredths ◯ 1 tenth + 13 hundredths

h. 8 hundredths + 7 tenths ◯ 6 tenths + 17 hundredths

4. Solve.

a. Express your solution as a fraction of a meter. 0.3 m + 1.45 m

b. Express your solution as a fraction of a liter. 1.7 L + 0.82 L

c. Express your solution as a fraction of a dollar. 4 dimes 1 penny + 77 pennies

5. Solve.

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a. $\frac{7}{10} + \frac{8}{100}$

b. $\frac{4}{10} + \frac{51}{100}$

c. $\frac{5}{10} + \frac{68}{100}$

d. $\frac{98}{100} + \frac{2}{10}$

e. $\frac{12}{100} + \frac{12}{10}$

f. $\frac{1}{10} + \frac{13}{100} + \frac{8}{10}$

6. Answer the following questions about a track meet.

   a. Jim and Joe ran in a relay race. Jim had a time of 9.8 seconds. Joe had a time of 10.32 seconds. Together, how long did it take them to complete the race? Record your answer as a decimal.
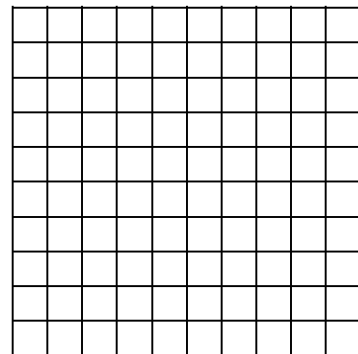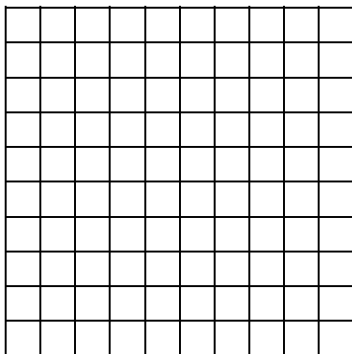
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b. The times of the 5 fastest runners were 7.11 seconds, 7.06 seconds, 7.6 seconds, 7.90 seconds, and 7.75 seconds. Locate these times on the number line. Record the times as decimals and fractions. One has been completed for you.

7.11

$7\frac{11}{100}$

7   8
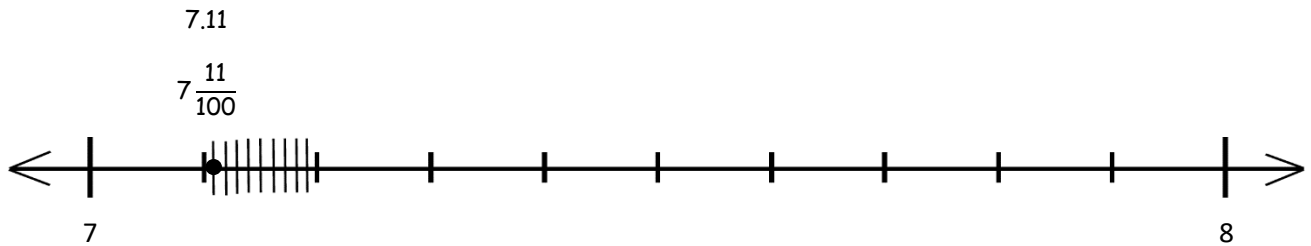
c. Natalie threw a discus 32.04 meters. She threw 3.8 meters farther on her next throw. Write a statement to compare the two distances that Natalie threw the discus using >, <, or =.

d. At the concession stand, Marta spent 89 cents on a bottle of water and 5 dimes on a bag of chips. Shade the area models to represent the cost of each item.

e. Write a number sentence in fraction form to find the total cost of a water bottle and a bag of chips. After solving, write the complete number sentence in decimal form.

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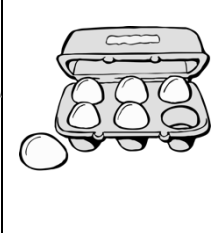
   f. Brian and Sonya each have a container. They mark their containers to show tenths. Brian and Sonya both fill their containers with 0.7 units of juice. However, Brian has more juice in his container. Explain how this is possible.

7. Complete the following chart.

	Unit Form	Fraction	Fraction Expanded Form	Decimal Expanded Form	Decimal
a.	1 tenth 6 hundredths				
b.		$2\frac{7}{10}$			
c.					6.34
d.				$(1 \times 10) + (6 \times 1) + (5 \times 0.01)$	
e.			$(2 \times 10) + (3 \times 1) + (7 \times \frac{1}{10})$ $+ (8 \times \frac{1}{100})$		

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8. Maya puts groceries into bags. The items and their weights in kilograms are given below.

Bread	Bananas	Cheese	Carrots	Grapes	Eggs
0.25	0.34	0.56	$\dfrac{25}{100}$	$\dfrac{56}{100}$	$\dfrac{34}{100}$

a. Plot the weight in kilograms of each item on the number line below.

0   1
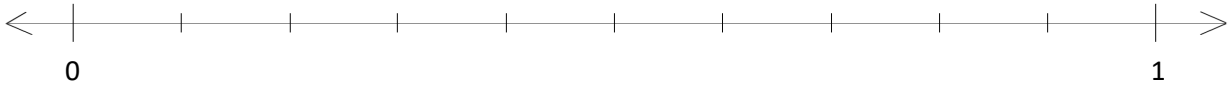
b. Write a number sentence using decimals to record the weight in kilograms of the bananas in expanded form.

c. Write a number sentence using fractions to record the weight in kilograms of the grapes in expanded form.

9. Solve for the following conversions. Draw tape diagrams to model the equivalency.
   a. 1 gal = _____ qt   b. 3 qt 1pt = _____ pt

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10. Complete the following tables:

Pounds	Ounces
1	
2	
6	
10	
13	

Hours	Minutes
1	
3	
7	
10	
14	

The rule for converting pounds to ounces is

_____.

The rule for converting hours to minutes is

_____.

11. Answer *true* or *false* for the following statements. Explain how you know using pictures, numbers, or words.

   a. 68 ounces < 4 pounds   _____

   b. 920 minutes > 17 hours   _____

   c. 38 inches = 3 feet 2 inches   _____

12. Convert the following measurements.

   a. Express the length of a 9 kilometer trip in meters. _____

   b. Express the capacity of a 3 liter 240 milliliter container in milliliters. _____

   c. Express the length of a 3 foot 5 inch fish in inches. _____

   d. Express the length of a $2\frac{1}{4}$ hour movie in minutes. _____

   e. Express the weight of a $24\frac{3}{8}$ pound wolverine in ounces. _____

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13. Find the following sums and differences. Show your work.

      a.   4 gal 2 qt + 5 gal 3 qt = _____ gal _____ qt

      b.   6 ft 2 in − 9 inches = _____ ft _____ in

      c.   3 min 34 sec + 7 min 46 sec = _____ min _____ sec

      d.   24 lb 9 oz − 3 lb 11 oz = _____ lb _____ oz

14. a. Complete the table.

                                            b. Describe the rule for converting yards to inches.

Length	
yards	inches
1	
2	
3	
4	
5	
10	

   c.   How many inches are in 15 yards?

d. Jacob says that he can find the number of inches in 15 yards by tripling the number of inches in 5 yards. Does his strategy work? Why or why not?

e. A blue rope in Garret's camping backpack is 6 yards long. The blue rope is 3 times as long as a red rope. A yellow rope is 2 feet 7 inches shorter than the red rope. What is the difference in length between the blue rope and the yellow rope?