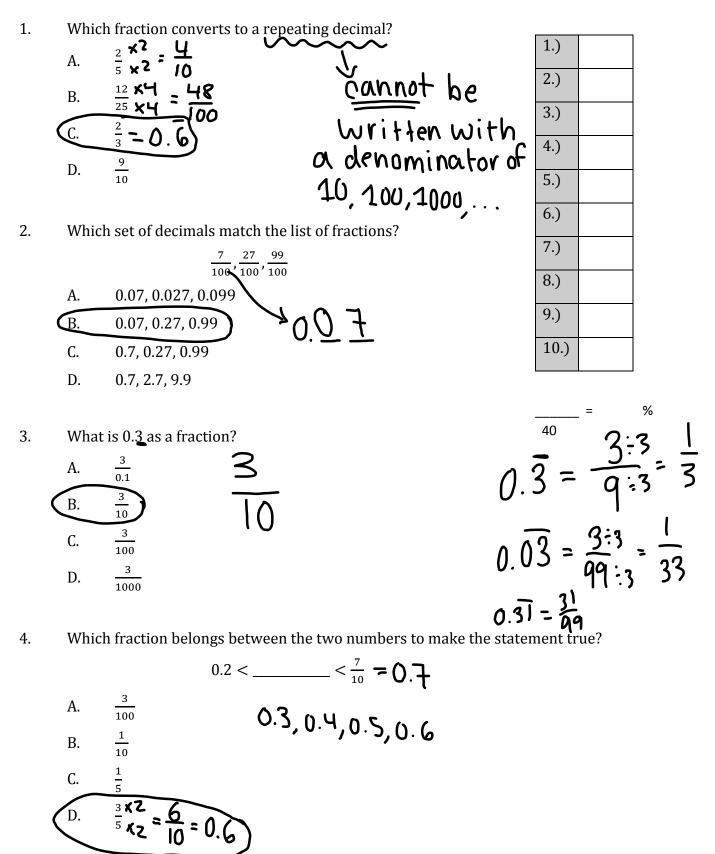
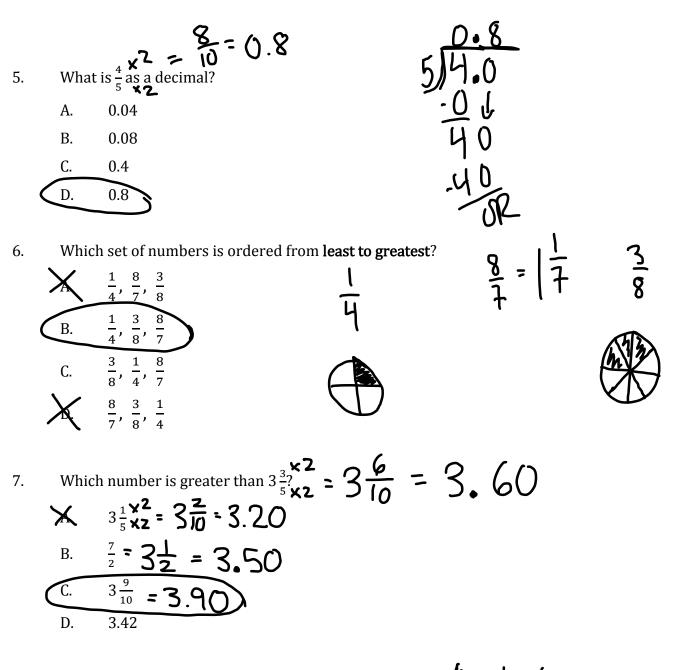
Unit 3 Assignment: Fractions and Decimals

Name: \_\_\_\_\_

**<u>Selected Response:</u>** Put the letter of the best response in the space provided.

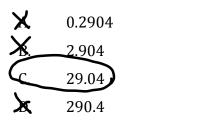


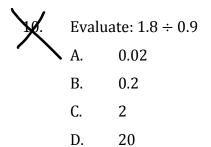


8. Using front-end estimation, what is the **best** estimate of 2.12 + 8.14 + 6 for A. 16 B. 17 C. 18 D. 19

9. Using front-end estimation, where should the decimal be placed in the product  $2.4 \times 12.3$ ?

24





0.3600

0.3333..

<del>0.3000</del>

0.3636...

**Constructed Response:** Show ALL necessary workings for FULL marks!!!

1. Consider the following pattern:

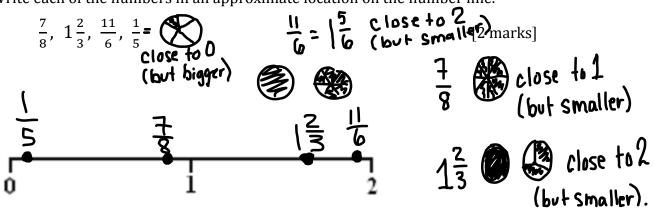
$$\frac{1}{11} = 0.\overline{09}, \ \frac{2}{11} = 0.\overline{18}, \ \frac{3}{11} = 0.\overline{27}, \ \frac{4}{11} = 0.\overline{36},$$

A. Predict the decimals for 
$$\frac{5}{11}$$
 and  $\frac{9}{11} \cdot \frac{89}{14} = \frac{81}{99} = 0.\overline{81}$  [2 marks]  
 $\frac{5}{11} = 0.\overline{45}$ 

B. Predict the fraction which will have 0.636363 ... as a decimal. [1 mark]  $\frac{63 \div 9}{99 \div 9} = \frac{7}{11}$ 

2.Arrange the following numbers in order from least to greatest.[3 marks] $0.36, 0.\overline{3}, 0.3, 0.\overline{36}, 0.03, 0.33$ 

3. Write each of the numbers in an approximate location on the number line.



4. Complete the table.

[2 marks]

FRACTION	DECIMAL		
3×125 375 8×125 1000	0.375		
3:3 13	0.3		

5.

1.8 ÷ 0.3

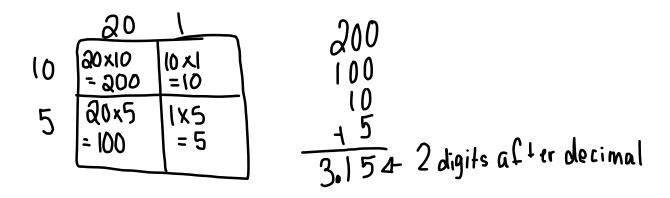
Use a model of your choice to evaluate each:

[3 marks]

2.1×1.5 # 2 digits after decima

B.

[3 marks]



	Evaluate. Use estimation to ensure y	is reasonable. [8 marks]	
A. 6	line up decimals 6.51 + 7.8 + 2.1	B.	10.3 – 5.21 <b>2</b> .
	6.51 7.80 2.10		10.30 - 5.21
	6.41		5.07 <u>es</u> t: 10-5=5
<u>es</u> t.6+7	12=15		
<b>C.</b> 2	$1.6 \times 7.2$	X	$2.34 \div 0.6$
+1.6 <u>x7.2</u> 32 +112 1.5	2 ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )		

7. Solve each problem. Show all workings.

- A. It takes Keegan 2.4 km to walk home from school. It takes him 2.31 km to walk to the stadium from school. What is the difference between the two distances? 2.310-2.310.09
  - B. Mitchell's cat has a mass of 1.8 kg. His dog has a mass 2.5 times as much as his cat. What is the mass of the dog, in kg?

Emily has 5.4 ft of rope. She wants to make survivor bracelets. Each bracelet requires 0.6 ft. of rope. How many bracelets can she make?