DATE

PERIOD

Unit 5, Lesson 2: Using Diagrams to Represent Addition and Subtraction

1. Use the given key to answer the questions.

0.1	
tenth	
0.01	
nunareth	
0.001	_
thousandth	
0.0001	
0.0001 ten-thousandth	•
ter en e abanach	

b. Draw a diagram that represents 0.216.

a. What number does this diagram represent?

c. Draw a diagram that represents 0.304.

2. Here are diagrams that represent 0.137 and 0.284.

tenths	hundredths	thousandths

a. Use the diagram to find the value of 0.137 + 0.284. Explain your reasoning.

NAME	DATE	PERIOD	
b. Calculate the sum vertically.	c. Hov que	w was your reasoning in t estions different? How wa	the first two as it similar or
0.137	the	same?	
+ 0.284			

3. For the first two problems, circle the vertical calculation where digits of the same kind are lined up. Then, finish the calculation and find the sum. For the last two problems, find the sum using vertical calculation.

a. 3.25 + 1

	3.25	3.25	3.25
	+ 1.0	+ 1.0	+ 1
b. 0.5 + 1.15			
	0.5	0.5	0.50
	+ 1.1 5	+ 1. 1 5	+ 1. 1 5 0

c. 10.6 + 1.7

4. Andre has been practicing his math facts. He can now complete 135 multiplication facts in 90 seconds.

- a. If Andre is answering questions at a constant rate, how many facts can he answer per second?
- b. Noah also works at a constant rate, and he can complete 75 facts in 1 minute. Who is working faster? Explain or show your reasoning.

(from Unit 2, Lesson 9)

d. 123 + 0.2