Topic C Quiz Prep (Lessons 12 – 16)

Item 1: Divide:

34

You can solve this using any method you are most comfortable with. Here are two methods.

6,600 ÷ 40	60 100	X165
	40) 6,600 <u>- 4,000</u>	40 6600
	2,600 <u>2,400</u>	- <u>240</u> 200
	200 - 200 0	<u>- 200</u> 0

Item 2: Consider the Model:

20	9
680	306

Area Models can be used to multiply. They can also be used to divide.

This area model shows **34 x 29 = 986** 680 + 306 = 968

_

The same area model can show the inverse. 968 ÷ 34 = 29

34 is the **divisor** 680 + 306 = 986 is the **dividend** 20 + 9 = 29 is the **quotient**

Topic C Quiz Prep (Lessons 12 – 16)

Item 3: Complete the tape diagram to show the quotient.



Tape diagrams are visual representations of division problems. The long rectangle represents the <u>dividend</u> (the total amount being divided). The number on the left of the box is the <u>divisor</u>.

The best place to start is by estimating.385 ÷ 53400 ÷50 = 8This tells us that we will need to divide this rectanglein ABOUT 8 equal pieces of 50.

Next, do the actual division problem and find the **<u>quotient</u>**. That will tell you how many boxes to draw.

Item 4: Estimating the Quotient

Expression	Less than 10	Greater than 10	is less than 10 o
444 ÷ 61			<u>42</u> 0 ÷ <u>6</u> 0 = 7
971 ÷ 34			<u>99</u> 0 ÷ <u>3</u> 0 = 33
725 ÷ 55			<u>72</u> 0 ÷ <u>6</u> 0 = 12

For each expression, **estimate the quotient**. Make a mental math problem. Then tell whether the quotient is less than 10 or greater than 10.

<u>42</u> 0 ÷ <u>6</u> 0 = 7	less than 10
<u>99</u> 0 ÷ <u>3</u> 0 = 33	greater than 10
720 ÷ 60 = 12	greater than 10

Topic C Quiz Prep (Lessons 12 – 16)

Item 5: Divide:

	6 	<u></u>
843 ÷ 51	51) <u>843</u> - <u>510</u>	51 843 -51
Quotient: 16 Remainder: 27	333 <u>-306</u> 27	333 <u>-306</u> 27

Item 6: Word Problem:

Mr. Briganti has 3,400 Lego blocks. There are 26 students in the Lego Club. Each student gets the same number of Lego blocks.

How many Lego blocks does each student get?	Each student gets Lego blocks.	
How many Lego blocks are left over?	There are Lego blocks left over.	3,400 ÷ 26
		Quotient [.]

3,400 ÷ 26 Quotient: 130 Remainder: 20