

NAME

Key

DATE



Unit 3 Pre-Assessment page 1 of 4

- 1 Fill in the table with the missing representations.

Base Ten Numeral	Number Name	Expanded Form
4.37	four and thirty-seven hundredths	$(4 \times 1) + (3 \times \frac{1}{10}) + (7 \times \frac{1}{100})$
0.507	five hundred seven thousandths	$(5 \times \frac{1}{10}) + (7 \times \frac{1}{1000})$
2.349	two and three hundred forty-nine thousandths	$(2 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000})$

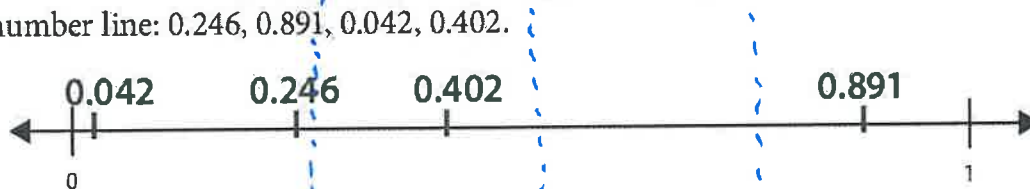
- 2 Write the symbol $>$, $=$, or $<$ to compare each pair of decimal numbers.

$3.087 < 3.807$

$0.16 < 0.4$

$0.190 > 0.109$

- 3 Order the following by putting them in approximately the correct place on the number line: 0.246, 0.891, 0.042, 0.402.



- 4 Round each number.

0.25

0.5

0.75

Number	To the Nearest 1	To the Nearest Tenth	To the Nearest Hundredth
4.946	5.000	4.900	4.950
3.053	3.000	3.100	3.050

- 5 Find the answer to each problem. Show your work.

a $4.62 + 2.99$

$4.62 + 2.99 = 7.61$

Work will vary (a common strategy will result in $4.61 + 3.00$).

b $7.89 - 3.2$

$7.89 - 3.2 = 4.69$

Work will vary.

(continued on next page)

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Unit 3 Pre-Assessment page 2 of 4**6** Find the sums and differences.

$$\begin{array}{r} 94.3 \\ + 45.5 \\ \hline 139.8 \end{array}$$

$$\begin{array}{r} 4.98 \\ + 2.34 \\ \hline 7.32 \end{array}$$

$$\begin{array}{r} 5.01 \\ - 2.40 \\ \hline 2.61 \end{array}$$

$$\begin{array}{r} 1.83 \\ - 0.90 \\ \hline 0.93 \end{array}$$

7 The football stadium in our town holds thousands of people. Today is Kids' Day, and they're only charging \$2.40 admission.**a** Complete the table below to show how much money they'll take in for different numbers of people.

Number of People	1	10	100	1,000	10,000
Amount of Money	\$2.40	\$24.00	\$240.00	\$2,400.00	\$24,000.00

b What happens to the number of zeroes in the product as you multiply a number by 10, and then by 10 again, and then by 10 again? Why?
Responses and explanations will vary. Example: The number of zeroes increases as the decimal point moves right. For each power of 10, the number increases by 10 times its value, and the digits shift left by one place value.**c** Jon was looking at the table above. He noticed that when you multiply a number by 10, and then by 10 again, and then by 10 again, the decimal point moves over to the right by one place every time. Explain to Jon why it works this way.**Responses and explanations will vary. Example: For each power of ten, the number increases by 10 times its value, and the digits shift left by one place value, seeming to move the decimal point one place value to the right.****8** 1 kilometer is 1,000 meters. 1 meter is 100 centimeters.**a** How many meters is 34 kilometers? 34 km = 34,000 m**b** How many kilometers is 34 meters? 34 m = 0.034 km**c** How many centimeters is 5.1 meters? 5.1 m = 510 cm**d** How many meters is 340 centimeters? 340 cm = 3.40 m

Larger Unit to smaller X
(km to m X)
Smaller unit to larger ÷
(m to km)

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9 Choose one division combination below and circle it. Pick the one that seems best for you: not too hard and not too easy.

156 ÷ 12

13

224 ÷ 14

16

330 ÷ 22

15

312 ÷ 24

13

see last page

a Write a story problem to match the division combination you circled above.

Story problems will vary.

Example: In Marysville, 12 city blocks equal 1 mile. The race this coming Saturday is 156 city blocks. How many miles is that?

b Use the grid below to model and solve the problem. Show all of your work.

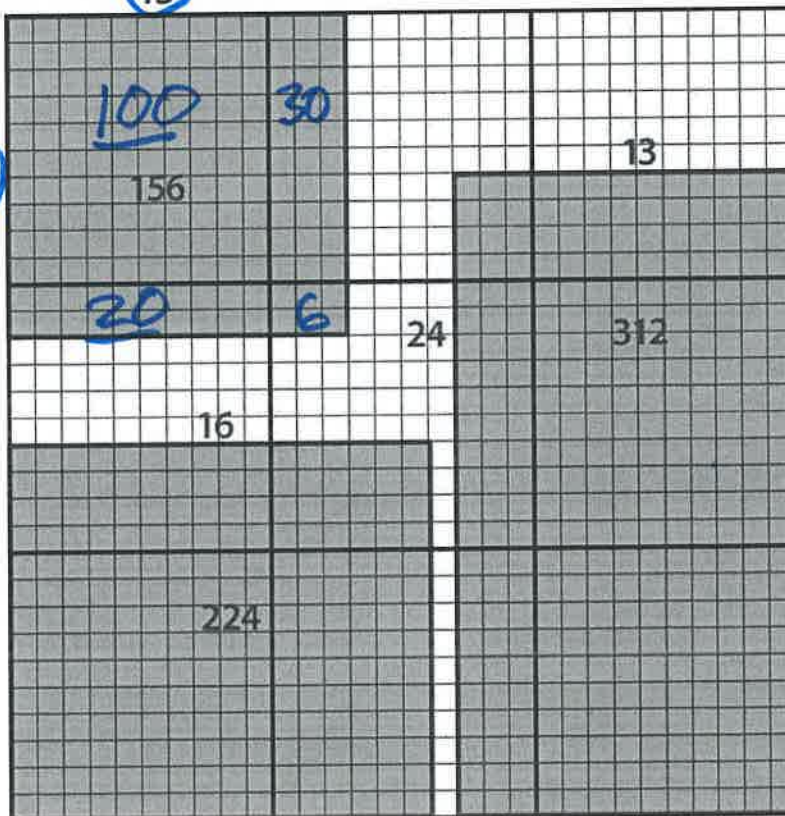
Note If you don't know how to use the grid to model and solve the problem, but you have some other method, work the problem on a separate piece of paper and attach it to this assessment before you turn it in. Work will vary. Three examples below.

c Write the answer here. answers above

156 ÷ 12 = 13

$$\begin{array}{r} 100 \\ 20 \\ 30 \\ + 6 \\ \hline 156 \end{array}$$

12



312 ÷ 24 = 13

224 ÷ 14 = 16

14

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10 The fifth graders are going on an overnight camping trip. In all, there are 140 kids and adults, and they're traveling to the camp in passenger vans. If each van can carry 12 passengers, how many vans will they need to get everyone there at the same time?

a Write an expression to match this problem. 140 ÷ 12

b Use numbers, words, or labeled sketches to solve the problem.

Work will vary. Example:

$140 \div 12 = 11 \text{ R}8$

11

12 132

8

140 people
 $11 \times 12 = 132$
 8 left over
 $132 + 8 = 140$
 12 vans will be needed.

Remainder

100
20

100
 20
 10
 $+ 2$

 132

~~140~~
~~132~~

 8

$140 \div 12 = 11 \text{ r}8$

c Write your answer, labeled with the correct units, here. _____

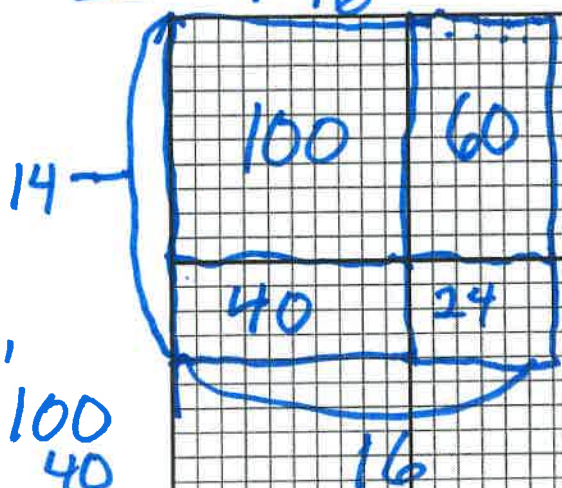
12 minivans will be needed. (There will be 4 empty seats.)

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**Base Ten Grid Paper**

$$224 \div 14 = 16$$



$$\begin{array}{r} 100 \\ 40 \\ 60 \\ + 24 \\ \hline 224 \end{array}$$