Name _____   Date _____

1. Estimate, and then divide. An example has been done for you.

$78.4 \div 0.7 \approx 770 \div 7 = 110$

$$= \frac{78.4}{0.7}$$

$$= \frac{78.4 \times 10}{0.7 \times 10}$$

$$= \frac{784}{7}$$

$$= 112$$

```
        1 1
    7 | 7 8
       -7
         8
        -7
        1 4
       -1 4
          0
```

a. $61.6 \div 0.8 \approx$

b. $5.74 \div 0.7 \approx$

2. Estimate, and then divide. An example has been done for you.

$7.32 \div 0.06 \approx 720 \div 6 = 120$

$$= \frac{7.32}{0.06}$$

$$= \frac{7.32 \times 100}{0.06 \times 100}$$

$$= \frac{732}{6}$$

$$= 122$$

```
        1 2
    6 | 7 3
       -6
        1 3
       -1 2
          1 2
         -1 2
            0
```

a. $4.74 \div 0.06 \approx$

b. $19.44 \div 0.54 \approx$

Lesson 31:   Divide decimal dividends by non-unit decimal divisors.
Date: 3/29/16

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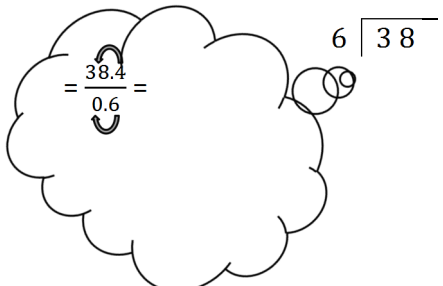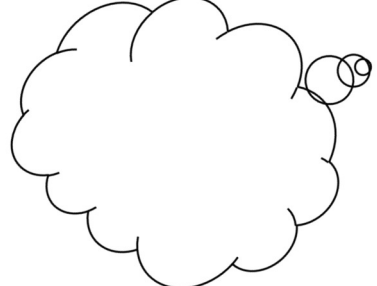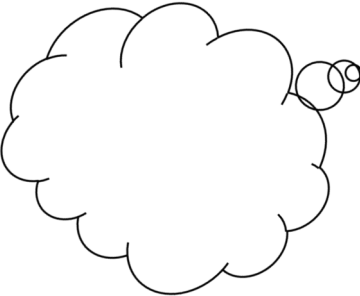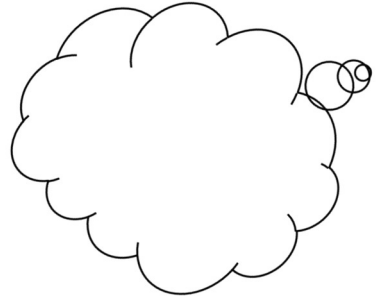
3. Solve using the standard algorithm. Use the thought bubble to show your thinking as you rename the divisor as a whole number.

a. $38.4 \div 0.6 =$ _____

$6\overline{)3\,8}$

$= \dfrac{38.4}{0.6} =$

b. $7.52 \div 0.08 =$ _____

c. $12.45 \div 0.5 =$ _____

d. $5.6 \div 0.16 =$ _____

4. Lucia is making a 21.6 centimeter beaded string to hang in the window. She decides to put a green bead every 0.4 centimeters and a purple bead every 0.6 centimeters. How many green beads and how many purple beads will she need?

5. A group of 14 friends collects 0.7 pound of blueberries and decides to make blueberry muffins. They put 0.05 pound of berries in each muffin. How many muffins can they make if they use all the blueberries they collected?

Lesson 31: Divide decimal dividends by non-unit decimal divisors.
Date: 3/29/16

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