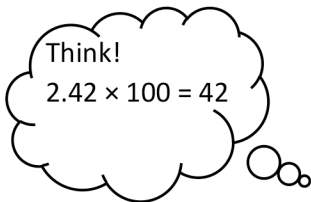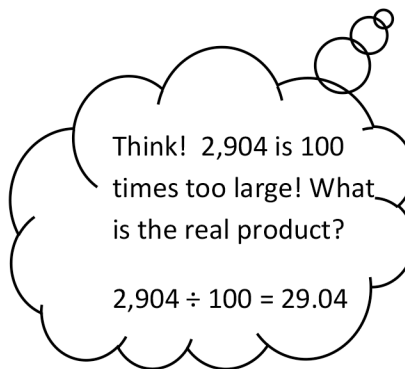Name _____   Date _____

1. Estimate the product. Solve using the standard algorithm. Use the thought bubbles to show your thinking. (Draw an area model on a separate sheet if it helps you.)

a. $2.42 \times 12 \approx$ _____ $\times$ _____ $=$ _____

Think!
$2.42 \times 100 = 42$

$$2.42$$
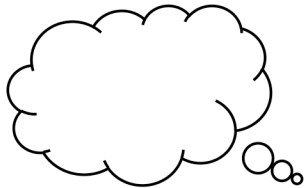$$\times\ 12$$

$2.42 \times 12\ =$ _____

Think! 2,904 is 100 times too large! What is the real product?

$2{,}904 \div 100 = 29.04$

b. $4.13 \times 37 \approx$ _____ $\times$ _____ $=$ _____

$$4.13$$
$$\times\ 37$$

$4.13 \times 37 =$ _____
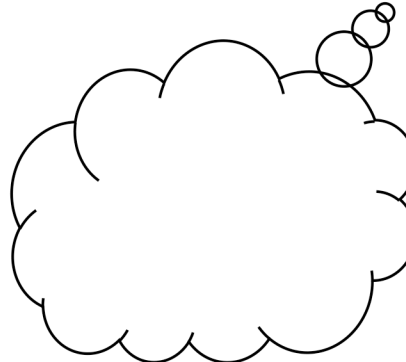
2. Solve using the standard algorithm.

a. 2.03×13

b. 53.16×34

c.   371.23 × 53

d.   1.57 × 432

3.   Use the whole number product and place value reasoning to place the decimal point in the second
     product. Explain how you know.

a.   If 36 × 134 = 4,824   then   36 × 1.34 = _____

b.   If 84 × 2,674 = 224,616   then   84 × 26.74 = _____

c.   19 × 3,211 = 61,009   then   321.1 × 19 = _____

4.   A slice of pizza costs $1.57. How much will 27 slices cost?

5.   A spool of ribbon holds 6.75 meters. A craft club buys 21 spools.
     a.   What is the total cost if the ribbon sells for $2 per meter?

b.   If the club uses 76.54 meters to complete a project, how much ribbon will be left?

Answer Key

1. a. 2; 12; 24; 29.04
   b. 4; 40; 160; answers will vary; 152.81

2. a. 26.39
   b. 1.807.44
   c. 19,675.19
   d. 678.24

3. a. 48.24
   b. 2,246.16
   c. 6,100.9

4. $42.39

5. a. $283.50
   b. 65.21 m