Date _____ Name _____

Estimate, and then solve using the standard algorithm. You may draw an area model if it helps you. 1.

a.
$$24 \times 2.31 \approx 20 \times 2 = 40$$

2. 31
 $\frac{\times 24}{924}$
 $+ 4620$
5. 42
 $5.42 \times 305 \approx 5 \times 300 = 1506$
 $5.42 \times 305 \approx 5 \times 300 = 1506$
 $5.42 \times 305 \approx 5 \times 300 = 1506$

2. Estimate, and then solve using the standard algorithm. Use a separate sheet to draw the area model if it helps you. 2 1 . .

a. 1.23×21 $\approx 1 \times 21 = 21 = 21 = 23 + 24 = 23 + 24 = 23 = 25 \times 83$	b. 3.2×41 $\approx 3 \times 46 = 120$ 1286 3.2×41 3.2×41 3.2×41 3.2×41 3.2×41 1.286 1.316^2
c. 0.32×41 $\approx \frac{1}{2} \times 40 = 20$ $\times \frac{41}{5}$ $\approx \frac{1}{2} \times \frac{40}{5} = 20$ $\times \frac{41}{5}$ $\approx \frac{1}{2} \times \frac{91}{5}$ $\frac{1}{3} \times 12$	d. 0.54×62 $\approx \frac{1}{2} \times 62 = 31$ $\frac{\times 62}{3} \times 62$ $\frac{+3240}{33.48}$

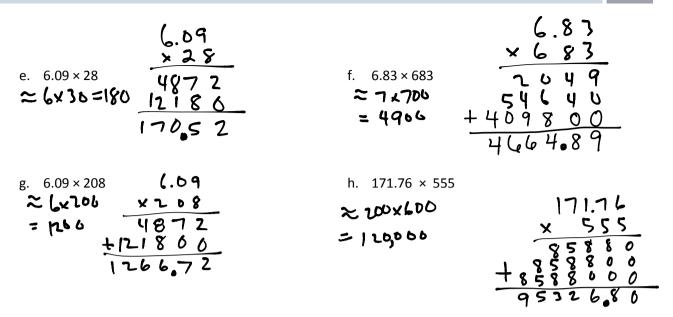


Lesson 12: Date:

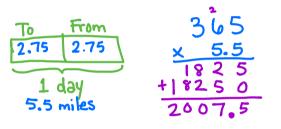
Reason about the product of a whole number and a decimal with hundredths using place value understanding and estimation. 7/4/13







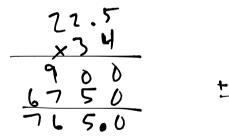
3. Eric walks 2.75 miles to and from work every day for an entire year. How many miles did he walk?

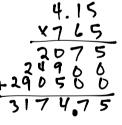


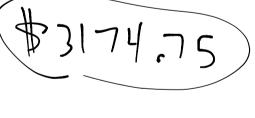
Eric walked 2007.5 miles during the year.

NOTE: It is likely students may interpret the problem as Eric Walking only 2.75 mi per day. This is Understandable! Roll with it.

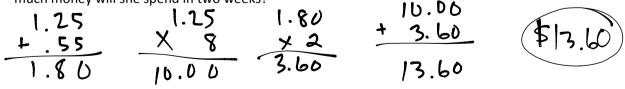
4. Art galleries often price paintings by the square inch. If a painting measures 22.5 inches by 34 inches and costs \$4.15 per square inch, what is the selling price for the painting?







5. Gerry spends \$1.25 each day on lunch at school. On Fridays she buys an extra snack for \$0.55. How much money will she spend in two weeks?





Lesson 12: Date: Reason about the product of a whole number and a decimal with hundredths using place value understanding and estimation. 7/4/13



2.C.33