

Name: KEY
November 26, 2012
Mr. McAusland - 6th Grade Math
Unit 2 Practice Quiz – Sections 5 through 8

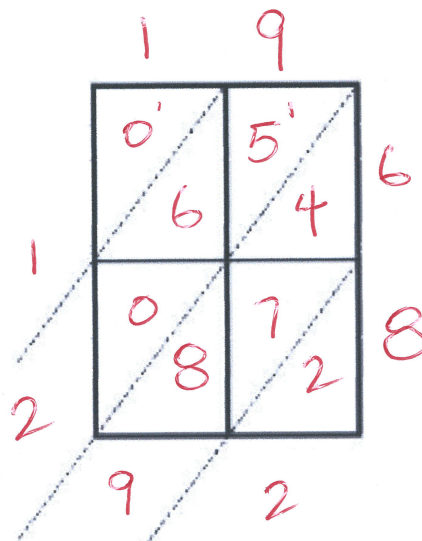
- 1) Estimate the product

$$19 * 68$$

Estimate : $20 * 70 = 1400$

- 2) Use the lattice method algorithm to solve the problem : 1292

$$19 * 68$$



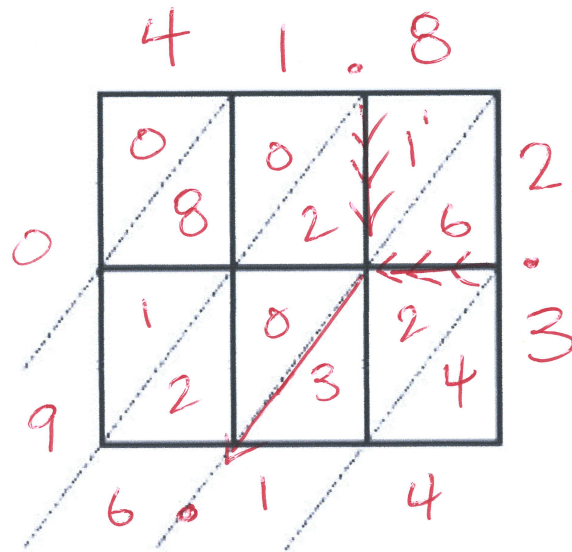
- 3) Estimate the product

$$2.3 * 41.8$$

Estimate : $2 * 40 = 80$

- 4) Use the lattice method algorithm to solve the problem : 96.14

$$2.3 * 41.8$$



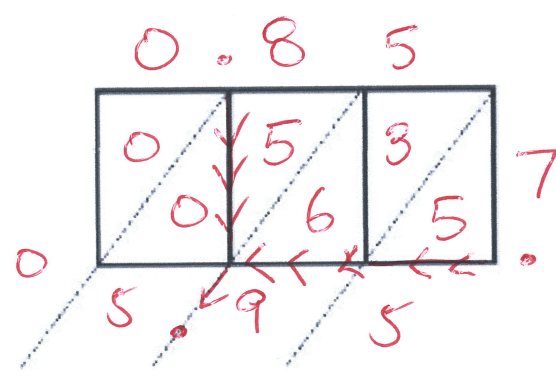
5) Estimate the product

$$7 * 0.85$$

Estimate : 7.1 = 7

6) Use the lattice method algorithm to solve the problem : 5.95

$$7 * 0.85$$



7) Estimate the product

$$48 * 1035$$

Estimate : 50 * 1000 = 50,000

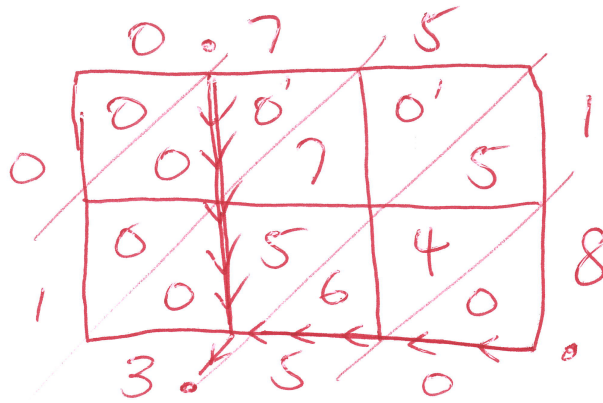
8) Use traditional multiplication to solve the problem : 49,680

$$48 * 1035$$

$$\begin{array}{r} \overset{1}{\cancel{4}} \overset{2}{\cancel{8}} \\ 1035 \\ \underline{48} \\ 8280 \\ 4140 \times \\ \hline 49680 \end{array}$$

9) A notebook's thickness is 0.75 cm. What is the total thickness if Billy has 18 notebooks?

The total thickness is 13.5 cm



10) Estimate the quotient : 10

How did you Estimate : 120/12 = 10

$$156/12$$

11) Use partial-quotient division algorithm to solve the problem : 13

$$\begin{array}{r}
 \overline{12} \overline{) 156} \\
 \underline{120} \quad 10 \\
 36 \\
 \underline{- 36} \\
 0 \quad \underline{\underline{3}} \\
 \quad \quad \underline{\underline{13}}
 \end{array}$$

12) Estimate the quotient : 20

How did you Estimate : $280/14 = 20$

$$257/14$$

13) Use partial-quotient division algorithm to solve the problem : 18 R5

or $18\frac{5}{14}$

$$\begin{array}{r} 14 \overline{) 257} \\ \underline{- 140} \\ 117 \\ \underline{- 70} \\ 347 \\ \underline{28} \\ 19 \\ \underline{- 14} \\ 5 \end{array} \quad \begin{array}{l} 10 \\ 5 \\ 2 \\ 1 \\ \hline 18 \end{array}$$

14) Estimate the quotient : 30

How did you Estimate : $900/30 = 30$

831.6/28

15) Use partial-quotient division algorithm to solve the problem : 29.7

$$\begin{array}{r} \overline{28 \overline{) 831.6}} \\ - 5600 \quad 200 \\ \hline 2716 \\ 1400 \quad 50 \\ \hline 12816 \\ 560 \quad 20 \\ \hline 6756 \\ - 560 \quad 20 \\ \hline 196 \\ - 140 \quad 5 \\ \hline 56 \\ - 56 \quad 2 \\ \hline 0 \end{array}$$

*NOTICE NO
DECIMAL
IN DIVISION

297

16) If a dinner bill totals \$146 and there were 4 people at the table. How much will each person need to pay?

$$\begin{array}{r} 4 \overline{) 146} \\ \underline{- 80} \\ 66 \\ \underline{- 40} \\ 26 \\ \underline{- 20} \\ 6 \\ \underline{- 4} \\ 2 \end{array}$$

20
10
5
1
36

$$36 \frac{2}{4} = \$36.50$$
$$36 \frac{1}{2}$$

EACH PERSON HAD TO PAY \$36.50