

SOL HW 1.3

September 21, 2016 1:52 PM

Name: Key

Date: _____

Math 8 Homework Assignment Section 1.3 Multiplying 2 Digit Integers

1. Multiply the following without a calculator

a) $\begin{array}{r} 45 \\ \times 23 \\ \hline 135 \\ 900 \\ \hline 1035 \end{array}$	b) $\begin{array}{r} 19 \\ \times 24 \\ \hline 76 \\ 380 \\ \hline 456 \end{array}$	c) $\begin{array}{r} 82 \\ \times 14 \\ \hline 328 \\ 820 \\ \hline 1148 \end{array}$
d) $\begin{array}{r} 64 \\ \times 92 \\ \hline 128 \\ 5760 \\ \hline 5888 \end{array}$	e) $\begin{array}{r} 27 \\ \times 51 \\ \hline 27 \\ 1350 \\ \hline 1377 \end{array}$	f) $\begin{array}{r} 72 \\ \times 39 \\ \hline 648 \\ 2520 \\ \hline 2808 \end{array}$
g) $\begin{array}{r} 116 \\ \times 28 \\ \hline 928 \\ 2320 \\ \hline 3248 \end{array}$	h) $\begin{array}{r} 17 \\ \times 17 \\ \hline 119 \\ 170 \\ \hline 289 \end{array}$	i) $\begin{array}{r} 72 \\ \times 19 \\ \hline 648 \\ 1440 \\ \hline 1368 \end{array}$

2. Use the area model to multiply the following:

a) $24 \times 35 = 840$ 	b) $85 \times 15 = 1275$ 	c) $73 \times 22 = 1606$
d) $38 \times 21 = 798$ 	e) $65 \times 22 = 1430$ 	f) $45 \times 24 = 1080$
g) $83 \times 28 = 2324$ 	h) $44 \times 77 = 3388$ 	i) $39 \times 28 = 1092$

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3. A man walks into the Apple store and bought 35 iPhones at once. If each phone costs \$750, how much did he spend?

$$35 \times 750 = 26250$$

spend?

$$35 \times 750.$$

	70	5
30	2100	150
5	350	25

$$\begin{array}{r} 2100 \\ 525 \\ \hline 26250 \end{array} //$$

4. Jerry works at a hotdog stand. Jappa dogs are \$7 each, Kobe burgers are \$11 each, and drinks are \$4 each. If he sold 85 Jappa dogs, 64 burgers and 135 drinks, how much revenue did he earn?

$$7 \times 85 + 11 \times 64 + 4 \times 135$$

$$\$595.00 + 704 + 540$$

$$= 1839.00 //$$

$$\begin{array}{r} 85 \quad 164 \\ \times 7 \quad 64 \\ \hline 35 \quad 704 \\ \hline 560 \\ \hline 595 \end{array} //$$

5. There are twelve people in an elevator with an average weight of 72kg. If the limit of the elevator is 850kgs, can all 12 people fit in the elevator?

$$12 \times 72$$

$$= 864 \text{ kg}$$



6. 250 adults and 600 kids attended a school play last week. Each adult costs \$12 and each student costs \$8.50. How much money did the school make in ticket sales?

$$\$8100 //$$

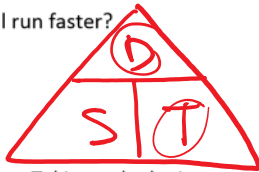
$$250 \times 12 + 600 \times 8.50$$

$$250 \times 4 \times 3 + 300 \times 2 \times 8.50$$

$$= 3000 + 5100$$

$$\begin{array}{r} 17 \\ \times 3 \\ \hline 30 \\ \hline 21 \end{array}$$

7. Nima can run 20 meters in 5 seconds and Jessica can run 30 meters in 8 seconds. If they run for 2 minutes, who will run faster?



$$\text{Nima's Speed} = \frac{20 \text{ m}}{5 \text{ s}}$$

$$= 4 \text{ m/s}$$

$$\text{Jessica's Speed} = \frac{30 \text{ m}}{8 \text{ s}}$$

$$= 3.75 \text{ m/s}$$

8. Challenge: Taking only the integers from 1 to 12 to form a product, what numbers from 1 to 100 can you not create? You can only use each integer from 1 to 12 once.

$$\underline{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12}$$

$$\cancel{1}, \cancel{2}, \cancel{3}, \cancel{4}, \cancel{5}, \cancel{6}, \cancel{7}, \cancel{8}, \cancel{9}, \cancel{10}, \cancel{11}, \cancel{12}, \cancel{13}, \cancel{14}, \cancel{15}, \cancel{16}$$

$$\cancel{17}, \cancel{18}, \cancel{19}, \cancel{20}, \cancel{21}, \cancel{22}, \cancel{23}, \cancel{24}, \cancel{25}, \cancel{26}, \cancel{27}, \cancel{28}, \cancel{29}, \cancel{30}$$

$$\begin{array}{cccccccccccc} 31 & \cancel{32} & \cancel{33} & 34 & \cancel{35} & 36 & 37 & 38 & \cancel{39} & \cancel{40} \\ 41 & \cancel{42} & 43 & \cancel{44} & \cancel{45} & 46 & 47 & 48 & 49 & \cancel{50} \\ 51 & \cancel{52} & & & \cancel{53} & & & & & \cancel{60} \\ 61 & & & & \cancel{65} & \cancel{66} & & & & \cancel{70} \\ 71 & & & & \cancel{75} & & \cancel{77} & \cancel{78} & & \cancel{80} \\ 81 & & & & \cancel{85} & & \cancel{88} & & & \cancel{90} \quad 13 \\ \cancel{91} & & & & \cancel{95} & & & & \cancel{99} & \cancel{100} \end{array}$$

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

~~1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14~~
~~15, 16, 17, 18, 19, 20, 21, 22~~