

KEY

NAME

DATE

PERIOD

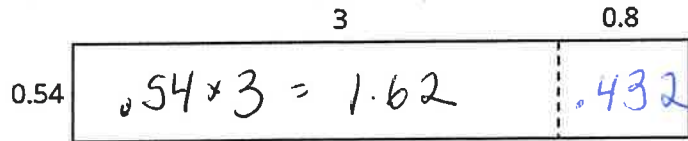
Unit 5, Lesson 8 - Monday Night 3/9

Practice Problems

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1. Here are an unfinished calculation of $(0.54) \cdot (3.8)$ and a 0.54-by-3.8 rectangle.

$$\begin{array}{r} \overset{4}{0} \overset{3}{5} \overset{4}{4} \\ \times \overset{3}{3} \overset{8}{8} \\ \hline \overset{4}{0} \overset{3}{4} \overset{3}{3} \overset{2}{2} \\ \overset{1}{1} \overset{6}{6} \overset{2}{2} \end{array}$$



- a. Which part of the rectangle has an area of 0.432? Which part of the rectangle has an area of 1.62? Show your reasoning.

$$\begin{aligned} .54 \times .8 &= .432 \\ .54 \times 3 &= 1.62 \end{aligned}$$

- b. What is $(0.54) \cdot (3.8)$?

$$\begin{array}{r} .432 \\ 1.62 \\ \hline 2.052 \end{array}$$

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2. Explain how the product of 3 and 65 could be used to find $(0.03) \cdot (0.65)$.

Multiply the whole numbers then divide by 10000

$$\frac{3}{100} \times \frac{65}{100} = \frac{195}{10000}$$

1

3. Use vertical calculation to find each product.

- a. $(5.4) \cdot (2.4)$

$$\begin{array}{r} \overset{1}{5} \overset{4}{4} \quad (1) \\ \times \overset{2}{2} \overset{4}{4} \quad (1) \\ \hline \overset{2}{2} \overset{1}{1} \overset{6}{6} \quad (2) \\ \overset{1}{1} \overset{0}{0} \overset{8}{8} \quad (2) \\ \hline \overset{1}{1} \overset{2}{2} \overset{9}{9} \overset{6}{6} \quad (2) \end{array}$$

- b. $(1.67) \cdot (3.5)$

$$\begin{array}{r} \overset{3}{1} \overset{2}{6} \overset{2}{7} \quad (2) \\ \times \overset{3}{3} \overset{5}{5} \quad (1) \\ \hline \overset{8}{8} \overset{3}{3} \overset{5}{5} \\ \overset{5}{5} \overset{0}{0} \overset{1}{1} \quad (3) \\ \hline \overset{5}{5} \overset{8}{8} \overset{3}{3} \overset{5}{5} \quad (3) \end{array}$$

1

4. A pound of blueberries costs \$3.98 and a pound of clementines costs \$2.49. What is the combined cost of 0.6 pound of blueberries and 1.8 pounds of clementines? Round your answer to the nearest cent.

$$\begin{array}{r} \overset{5}{3} \overset{9}{9} \overset{8}{8} \quad (2) \\ \times \overset{6}{6} \quad (1) \\ \hline \overset{2}{2} \overset{3}{3} \overset{8}{8} \end{array}$$

$$\begin{array}{r} \overset{3}{2} \overset{4}{4} \overset{9}{9} \quad (2) \\ \times \overset{1}{1} \overset{8}{8} \quad (1) \\ \hline \overset{1}{1} \overset{9}{9} \overset{9}{9} \overset{2}{2} \\ \overset{2}{2} \overset{4}{4} \overset{9}{9} \\ \hline \overset{4}{4} \overset{4}{4} \overset{8}{8} \overset{2}{2} \end{array}$$

$$\begin{array}{r} \overset{2}{2} \overset{3}{3} \overset{9}{9} \\ \overset{4}{4} \overset{4}{4} \overset{8}{8} \\ \hline \overset{6}{6} \overset{8}{8} \overset{7}{7} \end{array}$$

+ or minus a penny or 2

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5. Complete the calculations so that each shows the correct sum or difference.

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a.

$$\begin{array}{r} 2.140 \\ + 1.725 \\ \hline 3.865 \end{array}$$

b.

$$\begin{array}{r} 29.99 \\ + 1.42 \\ \hline 31.41 \end{array}$$

c.

$$\begin{array}{r} 6.157 \\ - 1.009 \\ \hline 5.148 \end{array}$$

3

6. Which has a greater value: $7.4^0 - 0.0022$ or $7.39 - 0.0012$? Show your reasoning.

bigger

$$\begin{array}{r} 7.4000 \\ - .0022 \\ \hline 7.3978 \end{array}$$

>

$$\begin{array}{r} 7.3900 \\ - .0012 \\ \hline 7.3888 \end{array}$$

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7. Andre is planting saplings (baby trees). It takes him 30 minutes to plant 3 saplings. If each sapling takes the same amount of time to plant, how long will it take Andre to plant 14 saplings? If you get stuck, consider using the table.

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number of saplings	time in minutes
3 x 10 =	30
1 x 10	10
14 x 10 =	140