

CHAPTER 6 REVIEW

JUST THE GOOD ONES

1. Patricio is making a scale model of his school. His school is 11.4 meters tall. If the model is 0.07 of the actual size of the school, how tall is the model?

$$11.4 \times 0.07$$

_____ meters

$$\begin{array}{r} 11.4 \\ \times 0.07 \\ \hline 798 \\ 000 \\ \hline 000 \end{array}$$

$$\begin{array}{r} 11.4 \\ \times 7 \\ \hline 0.798 \end{array} \text{ meters}$$

2. For 2a-2d, choose Yes or No to indicate whether the product is correct.

2a. $0.3 \times 0.4 = 1.2$

☐ Yes

☒ No

2b. $0.02 \times 0.4 = 0.008$

☒ Yes

☐ No

2c. $0.05 \times 0.3 = 0.015$

☒ Yes

☐ No

2d. $0.06 \times 0.03 = 0.018$

☐ Yes

☒ No

$41 \times 3 = \underline{\underline{123}}$

$2 \times 4 = \underline{\underline{008}}$

$3 \times 5 = \underline{\underline{015}}$

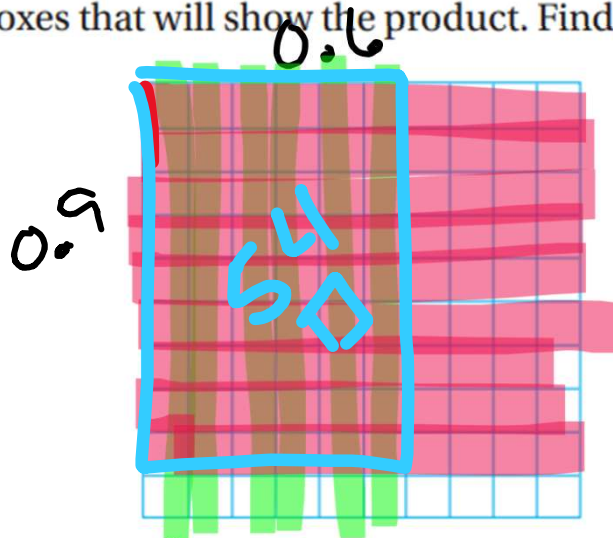
$6 \times 3 = \underline{\underline{0018}}$

3. Leona is working with a piece of string that is 5.5 feet long. She needs the string to be 2.7 times as long. How long will the string be?

$$14.85 \text{ ft}$$

$$\begin{array}{r} 5.5 \\ \times 2.7 \\ \hline 385 \\ + 1100 \\ \hline 14.85 \end{array}$$

4. Laurel models the product 0.9×0.6 . Shade the correct amount of boxes that will show the product. Find the product.



$$0.9 \times 0.6 = \underline{0.54}$$

$$\begin{array}{r} 0.9 \\ \times 0.6 \\ \hline 0.54 \end{array}$$

$$\square = 0.01 \\ = \frac{1}{100}$$

5. Use properties to find $4 \times 7.9 \times 2.5$

$$7.9 \times \underline{\quad 4 \quad} \times 2.5$$

Comm ^{order} Property of

mult. plication

$$7.9 \times \underline{(4 \times 2.5)}$$

Assoc. ^{group} property of multiplication

$$7.9 \times \underline{10}$$

$$\underline{79.}$$

$$79$$

$$79.0$$

$$LXXIX$$

6. Which problems will have two decimal places in the product? Mark all that apply.

☒ **A** $3.\underline{4} \times 6.\underline{7}$

☐ **B** $7.\underline{4} \times 10$

☒ **C** $9.\underline{85} \times 1$

☐ **D** $8.\underline{4} \times 9$

☒ **E** $7 \times 2.\underline{96}$

8. Maria worked 31.75 hours this week.

Part A

Last week, Maria worked 0.8 times as many hours. How many hours did she work last week? Show your work.

25.4 hours

Part B

Next week, Maria is scheduled to work 1.2 times as many hours. Assuming she works whatever she is scheduled for, how many hours will she work next week? Show your work.

38.1 hours

$$\begin{array}{r} 31.75 \\ \times 0.8 \\ \hline 25400 \end{array}$$

$$\begin{array}{r} 31.75 \\ \times 1.2 \\ \hline 6350 \\ + 31750 \\ \hline 38100 \end{array}$$

11. Use the numbers in the boxes to complete the number sentences.

A number may be used more than once.

1,620

1620

16.20

1.620

0.1620

$$\begin{array}{r} 3.6 \\ \times 4.5 \\ \hline \end{array} = \boxed{16.20}$$

$$\begin{array}{r} 3.6 \\ \times 45 \\ \hline \end{array} = \boxed{162.0}$$

$$\begin{array}{r} 3.6 \\ \times 0.45 \\ \hline \end{array} = \boxed{1.620}$$

$$\begin{array}{r} 0.36 \\ \times 0.45 \\ \hline \end{array} = \boxed{0.1620}$$

$$\begin{array}{r} 36 \\ \times 45 \\ \hline 180 \\ 144 \\ \hline 1620 \end{array}$$

13. Saul bought 2.3 pounds of apples and 4 pounds of oranges. They each cost \$1.70 per pound.

Part A

Explain how you could mentally find the cost of the oranges by using the Distributive Property. What is the cost?

$$\boxed{\$1.70 \times 4}$$

$$\begin{aligned} & (\$1 + \$0.70) \times 4 \\ & (4 \times \$1) + (4 \times \$0.70) \\ & \$4 \quad \quad \$2.80 \end{aligned}$$

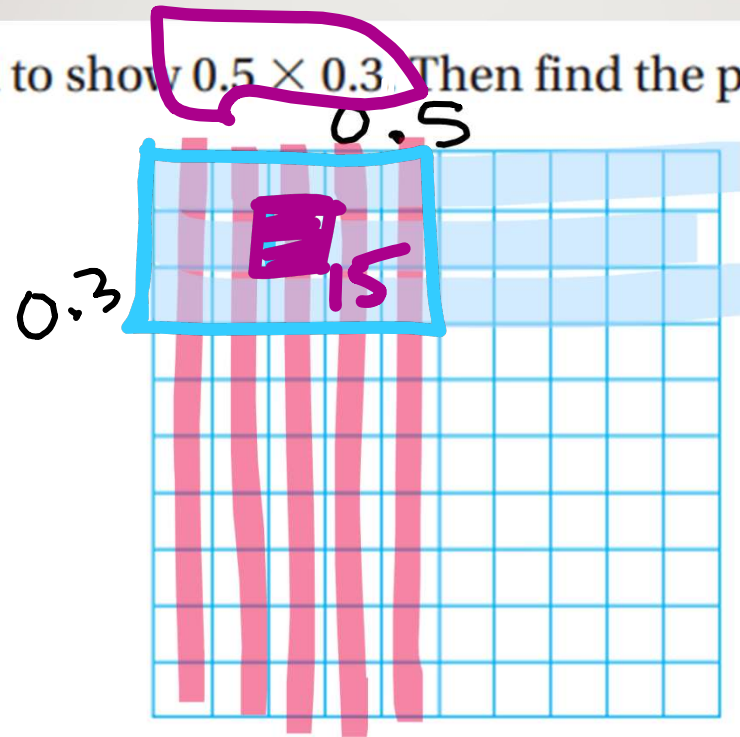
$$4 + 2.80 \rightarrow \$6.80$$

4 x \$1

2.80

But 70

15. Shade the model to show 0.5×0.3 . Then find the product.



15 □s
15/100

$$0.5 \times 0.3 = 0.15$$

20. A builder buys 24.5 acres of land to develop a new community of homes and parks.

Part A

The builder plans to use 0.25 of the land for a park. How many acres will he use for the park?

6.125 acres

Part B

He buys a second property that has 0.62 times as many acres as the first property. How many acres of land does the second property have? Show your work.

15.190

$$\begin{array}{r} 3 \\ 1.5 \\ \times 0.62 \\ \hline 90 \\ 00 \\ \hline 90 \end{array}$$

0.2

$$\begin{array}{r} 1 \\ 24.5 \\ \times 0.25 \\ \hline 1225 \\ +4900 \\ \hline 6125 \end{array}$$