

Name _____

Topic 7 Math Practice

Try these problems then check the answers on the website tonight to see how you did. You can ask any last-minute questions you have tomorrow before the test.

Lesson 7-1

Use the patterns in this table to find $\$8.56 \times 10$ and 0.36×100 .

Multiply by	Move the decimal point to the right
1	0 places
10	1 place
100	2 places
1,000	3 places

$$\$8.56 \times 10 = \underline{\$85.6} = \$85.60$$

$$0.36 \times 100 = \underline{36.0} = 36$$

Remember when you need to move the decimal point beyond the number of digits in the number you are multiplying, annex 1 or more zeros.

Use mental math to solve each problem.

- 10×4.5 **45**
- 100×4.5 **450**
- $1,000 \times 4.5$ **4500**
- 10×0.89 **8.9**
- $1,000 \times 0.98$ **980**
- 10×0.0089 **0.089**
- $3.8 \times 1,000$ **3,800**
- 78.6×100 **7,860**

Lesson 7-2

Find 12×0.15 .

Step 1

Multiply as you would with whole numbers.

$$\begin{array}{r} 12 \\ \times 0.15 \\ \hline 60 \\ + 120 \\ \hline 180 \end{array}$$

Step 2

Count the decimal places in both factors. Then, place the decimal point in the product the same number of places from the right.

$$\begin{array}{r} 12 \\ \times 0.15 \\ \hline 60 \\ + 120 \\ \hline 1.80 \end{array} \quad \begin{array}{l} 2 \text{ places} \\ \text{---} \\ \text{---} \\ \text{---} \end{array}$$

So, $12 \times 0.15 = 1.8$.

Remember to count the decimal places in both factors before you place the decimal point in the product.

Find each product.

- 50×3.67 **183.5**
- 5.86×5 **29.3**
- 14×9.67 **135.38**
- 8×56.7 **453.6**
- 11×0.006 **0.066**
- 2.03×6 **12.18**
- 25×1.63 **40.75**
- 5.62×75 **421.5**

Lesson 7-3

Find $3.6 \times \$2.15$.

Estimate: $4 \times \$2 = \8

Step 1

Multiply as you would with whole numbers.

$$\begin{array}{r} \$2.15 \\ \times 3.6 \\ \hline 1290 \\ + 6450 \\ \hline 7740 \end{array}$$

Step 2

Count the decimal places in both factors. Place the decimal point in the product the same number of places from the right.

$$\begin{array}{r} \$2.15 \quad 2 \text{ places} \\ \times 3.6 \quad 1 \text{ place} \\ \hline 1290 \\ + 6450 \\ \hline \$7.740 \end{array}$$

So, $3.6 \times \$2.15 = \7.74 .

Remember to count the decimal places in both factors before placing the decimal point in the product.

Find each product.

- 2.4×3.67 **8.808**
- 5.86×5.2 **30.472**
- 8.3×10.7 **88.81**
- 3.42×4.7 **16.074**
- 1.4×9.67 **13.538**
- 11.2×9.7 **108.64**
- 23.3×60.5 **1409.65**
- 9.03×67.98 **613.8594**

Lesson 7-4

Estimate $\$4.78 \times 18$.

One Way

Round each number to the greatest place that has a non-zero digit.

$$\begin{array}{r} \$4.78 \times 18 \\ \downarrow \quad \downarrow \\ \$5 \times 20 \end{array}$$

$$\$5 \times 20 = \$100$$

Estimate 27×3.95

Another Way

Use compatible numbers. The numbers 30 and 3 are easy to multiply.

$$30 \times 3 = 90$$

Remember that compatible numbers can also be used to estimate products.

Estimate each product.

- 24×3.67 **100**
- 5.86×52 **300**
- 14×9.67 **140**
- 8×56.7 **480**
- 19×9.06 **180**
- 2.03×6 **12**
- 3.78×9 **36**
- 7.98×6 **48**

Lesson 7-5

Juan used first-class mail to send two baseballs to his grandson. Each baseball weighed 5 ounces. The postage was \$0.39 for the first ounce and \$0.24 for each additional ounce. How much was the postage?

\$2.55