Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.1

Multiply with Multiples of 10, 100, and 1,000

Practice to review… I can use basic facts and mental math to multiply!

I can find the product of 2×60

I know that 2×6 = _____

THINK

I know that 60 is equivalent to <u>6 tens</u>,

So 2×6 tens = _____ tens

so 2×60 = <u>2×6 tens</u>

2×60 = _____

I can also find the product of 2×600

THINK

I know that 600 is equivalent to <u>6 hundreds</u>,

2×6 hundreds = _____ hundreds

so 2×600 = <u>2×6 hundreds</u>

2×600 = _____

Practice to remember…

Use basic facts and patterns to find each product.

1. 3×8 _____
2. 3×80 _____
3. 3×800 _____
4. $3 \times 8{,}000$ _____
5. 4×30 _____
6. $4 \times 3{,}000$ _____
7. 4×3 _____
8. 4×300 _____
9. 6×40 _____
10. 6×4 _____
11. $6 \times 4{,}000$ _____
12. 6×400 _____

Solve. Use pictures, numbers, or words to show how you know.

13. At the Paper Shop, Molly bought a large pack of stickers. It had 8 sheets with 40 stickers on each sheet. How many stickers are in the pack? Show how you know.

Name: _____ Date: _____

Remembering

Practice for fluency…

Compare. Choose >, <, or = for each ◯.

14. 1,500 ◯ 1,471+28

a. >

b. <

c. =

15. 2,457+42 ◯ 2,500

a. >

b. <

c. =

Use the rule. Find each missing value.

	Rule: $e = p \div 3$	
	Input	Output
	p	e
16.	6	
17.		3
18.		6

Write a rule for the function table.

19. Rule: _____

Input	Output
m	n
5	12
11	18
18	25

Use the information from the table to answer the questions.
Use pictures, numbers, or words to show how you know.

20. If $p = 6$, what is the cost of the red shirt? Show how you know.

Clothing Price List	
red shirt	$2p + 3$ dollars
blue shirt	$3p - 6$ dollars
jeans	$4p + 2$ dollars
sweater	$3p + 5$ dollars
socks	$2p - 3$ dollars

21. Without knowing the value of p, tell which will cost more, the sweater or the blue shirt? Show how you know.

Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.2

Estimate Products

Practice to review… I can use basic facts and mental math to estimate!

I can estimate the product of 5×478

I know that 478 *is about* _____

so 5×478 *is about* $5 \times$ _____

THINK what basic fact will help?

$5 \times$ _____ = _____

$5 \times$ _____ hundreds = _____ hundreds

5×478 *is about* _____

Practice to remember…

Estimate each product. Write the basic fact you use.

1. 59×2 basic fact: _____ estimate: _____

2. 4×62 basic fact: _____ estimate: _____

3. 247×6 basic fact: _____ estimate: _____

4. 619×6 basic fact: _____ estimate: _____

5. 4×285 basic fact: _____ estimate: _____

6. $8 \times \$78.45$ basic fact: _____ estimate: _____

7. $\begin{array}{r} 3{,}081 \\ \times \quad 3 \\ \hline \end{array}$ basic fact: _____ estimate: _____

8. $\begin{array}{r} 4{,}099 \\ \times \quad 5 \\ \hline \end{array}$ basic fact: _____ estimate: _____

Name: _____ Date: _____

Remembering

Practice for fluency…

9. What value of m? $m + 15 = 21 + 59$

   a. $m = 65$

   b. $m = 80$

   c. $m = 95$

10. What is true when $r = 4$?

   a. $9 - r = r + 1$

   b. $9 - r > r + 1$

   c. $9 - r < r + 1$

Use this number: 3<u>3</u>7,445

11. Write the **place** of the underlined digit.

   _____

12. Write the **value** of the underlined digit.

   _____

Use this number: 8<u>9</u>7,403,526

13. Write the **place** of the underlined digit.

   _____

14. Write the **value** of the underlined digit.

   _____

Solve. Use pictures, numbers, or words to show how you know.

15. Find the missing number in the subtraction problem. Show how you know.

```
   15,412
 -
 ________
    1,525
```

16. The library has 12,452 nonfiction books and 25,788 fiction books. How many fiction and nonfiction books are in the library? Show how you know.

Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.3

Model Multiplication by One-Digit Numbers

Practice to review… I can use base ten blocks or drawings to model multiplication!

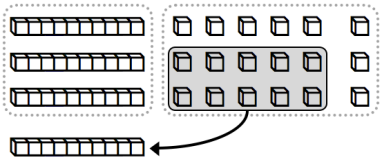
In 3rd grade, I learned that **The Distributive Property of Multiplication** over Addition says that multiplying a sum by a number is the same as multiplying each addend by that number and then adding the partial products.

I can use the **The Distributive Property of Multiplication** to find the product of 3×16.

Step 1:
Model 3 groups of 16.

Step 2:
Multiply. Use basic facts and mental math to find partial products for the tens and ones.

Step 3:
Add the partial products together. You may need to combine ones to make new tens.



$3 \times 16 = (3 \times \_\_\_\_) + (3 \times \_\_\_\_)$

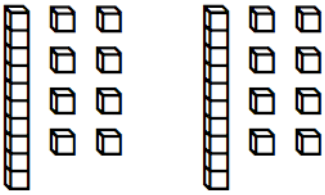
$3 \times 16 = \_\_\_\_ + \_\_\_\_$

$3 \times 16 = \_\_\_\_$

Practice to remember…

Tell what multiplication sentence is shown by the base-ten models. Then find the product.

1.



_____

2.

_____

Find each product. Draw a math sketch to show your thinking.

3. $2 \times 26 = \_\_\_\_$

4. $3 \times 23 = \_\_\_\_$

5. $5 \times 13 = \_\_\_\_$

Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
RE 6.3

Remembering

Practice for fluency…

Simplify.

6. $12 \div 2 \times 2 - 1$

   a. 2

   b. 4

   c. 6

   d. 11

7. $14 \div (2+5) \times 2$

   a. 1

   b. 4

   c. 17

   d. 22

Estimate.

8. $373 + 227$

   _____

9. $3{,}458 + 2{,}683$

   _____

10. $708 - 569$

    _____

11. $8{,}792 - 3{,}934$

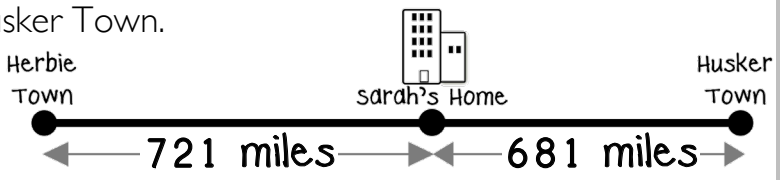
    _____

Solve. Use pictures, numbers, or words to show how you know.

12. Nia has 521 stamps in her collection. Frida has 498 stamps in her collection. How many more stamps does Frida need in order to have more stamps than Nia? Show how you know.

13. Sarah lives between Herbie Town and Husker Town.

    The map shows the distance to each town from Sarah's home. How far is it from Herbie Town to Husker Town if you travel on the roads past Sarah's home? Show how you know.



Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.4

Multiply Two-Digit by One-Digit Numbers

Practice to review… I can use the Distributive Property of Multiplication!

I can use different strategies to find the product of **3 x 34**.

Expanded Method

$3 \times 34 = (3 \times \_\_\_\_) + (3 \times \_\_\_\_)$

$3 \times 34 = \_\_\_\_ + \_\_\_\_$

$3 \times 34 = \_\_\_\_$

Regrouping

$$\begin{array}{r} 34 \\ \times \quad 3 \\ \hline \end{array}$$

Show All Products

$$\begin{array}{r} 34 \\ \times \quad 3 \\ \hline \end{array}$$

$\leftarrow$ 3×30

$+ \_\_\_\_$ $\leftarrow$ 3×4

Practice to remember…

Estimate. Then multiply. Show your thinking.

1. 7×23 estimate: _____ product: _____

2. 48×2 estimate: _____ product: _____

Name: _____ Date: _____

Practice to remember, continued…

Estimate. Then multiply. Show your thinking.

3. $\begin{array}{r} 44 \\ \times \quad 3 \\ \hline \end{array}$ estimate: _____ product: _____

4. $\begin{array}{r} 54 \\ \times \quad 2 \\ \hline \end{array}$ estimate: _____ product: _____

Read the Math Story and answer the question.
Choose a strategy to show your thinking in the space provided.

5. Beth pans to read 28 pages in her book each day. How many pages will she read in one week? Show how you know.

Remembering

Practice for fluency…

6. I am a two-digit number. My tens digit is 3 more than my ones digit. I am an even number. What number am I?

   a. 174
   b. 85
   c. 52
   d. 32

7. I am a three-digit number. All my digits are odd numbers. My tens digit is the greatest of the three digits. My ones digit is 2 more than my hundreds digit. What number am I?

   a. 24
   b. 385
   c. 153
   d. 513

Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.6A

Multiply Three-Digit by One-Digit Numbers

Practice to review… I can use The Distributive Property of Multiplication!

I can use different strategies to find the product of **3 x 215**.

Expanded Method

$3 \times 215 = (3 \times \_\_\_\_) + (3 \times \_\_\_\_) + (3 \times \_\_\_\_)$

$3 \times 215 =$ _____ + _____ + _____

$3 \times 215 =$ _____

Regrouping

$$\begin{array}{r} 215 \\ \times \quad 3 \\ \hline \end{array}$$

Show All Products

$$\begin{array}{r} 215 \\ \times \quad 3 \\ \hline \end{array}$$

3×200 ←

3×10 ←

+ _____ 3×5 ←

Practice to remember…

Find each product. Show your thinking.

1. 6×247 estimate: _____ product: _____

2. 818×3 estimate: _____ product: _____

Name: _____ Date: _____

Practice to remember, continued…

Estimate. Then multiply. Show your thinking.

3. 426
× 4

estimate: _____

product: _____

4. $2.73
× 5

estimate: _____

product: _____

Remembering

Practice for fluency…

Use the rule. Find each missing value.

Rule: $4r = w$	
Input	Output
r	w
3	
4	
	60

5.
6.
7.

Write a rule for the function table.

8.

Rule: _____	
Input	Output
t	s
3	1
15	5
45	15

Solve. Use pictures, numbers, or words to show how you know.

9. During the summer, the population of Spring Lake is 30,155. During the winter months, the population drops to 13,876. How many people move away from Spring Lake during the winter months? Show how you know.

Name: _____ Date: _____

Chapter 6
Multiply by One-Digit Numbers
HW 6.6B

Multiply Three-Digit by One-Digit Numbers

Practice to review… I can use different strategies to multiply!

I can use multiplication strategies to solve problems with words.

Maria and her friends are selling popcorn at the pep rally. They have 9 packages of popcorn boxes. There are 108 popcorn boxes in each package. How many popcorn boxes do they have?

UNDERSTAND ***This story is about*** _____.

PLAN ***I know for sure*** that Maria and her friends have _____ packages of popcorn boxes.

I also know that there are _____ popcorn boxes in each package.

Think about the story. Do we need to ***combine*** or ***separate*** something to solve the problem?

We need to _____ all the popcorn boxes.

What operations can we use to combine the packages of popcorn boxes?

We can _____ or _____ !

SOLVE

Choose a strategy.

Combine _____ groups of _____. →

How many boxes in all? _____

There are _____ popcorn boxes.

LOOK BACK Let's check… Write an equation to show how you counted the popcorn boxes.

Estimate. Does your first answer make sense?

Practice to remember…

Solve. Use pictures, numbers, or words to show how you know.

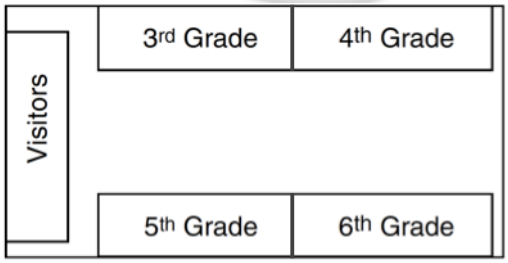
1. Maria bought 6 jars of glitter to decorate the banner. If each jar cost $2.19, how much did Maria spend on the glitter?

Name: _____ Date: _____

Practice to remember, continued…

Solve. Use pictures, numbers, or words to show how you know.

2. The diagram shows the seating chart for the pep rally. Each section seats 285 people. If all the seats are filled, how many people will be at the pep rally?



Find each product. Show your thinking.

3. $\begin{array}{r} 422 \\ \times \quad 2 \\ \hline \end{array}$ estimate: _____ product: _____

4. $\begin{array}{r} \$5.71 \\ \times \quad 6 \\ \hline \end{array}$ estimate: _____ product: _____

Remembering

Practice for fluency…

5. Which expression has the greatest value?
   a. $18 \div 6$
   b. 6×6
   c. $35 \div 5$
   d. 4×8

6. 1 thousand = ____ tens
   a. 1
   b. 10
   c. 100
   d. 1,000