

# **American Math Homework**

## **Due Date – Sun, 09/15/24 by midnight**

Homework instructions –

1. Please submit completed HW packet online through Archie.
2. If you are working on the paper copy of the HW, please upload a scanned pdf document or one combined pdf file of pictures of each page through Archie.
3. Work on the HW packet according to the below timeline –
  - a. Monday – No HW
  - b. Tuesday – Pages 2 and 3 (Topic: Multiply tens, hundreds, and thousands)
  - c. Wednesday – Pages 4 and 5 (Topic: Multiply using the distributive property)
  - d. Thursday – Pages 6 and 7 (Topic: Multiply using expanded form)
  - e. Friday – Pages 8 and 9 (Topic: Multiply using partial products)

# Multiply Tens, Hundreds, and Thousands

Go Online

Interactive Examples

Find the product.

1.  $4 \times 7,000 = \underline{28,000}$

Think:  $4 \times 7 = 28$ So,  $4 \times 7,000 = 28,000$ .

2.  $9 \times 60 = \underline{\hspace{2cm}}$

3.  $8 \times 200 = \underline{\hspace{2cm}}$

4.  $5 \times 6,000 = \underline{\hspace{2cm}}$

5.  $7 \times 800 = \underline{\hspace{2cm}}$

6.  $8 \times 90 = \underline{\hspace{2cm}}$

7.  $6 \times 3,000 = \underline{\hspace{2cm}}$

8.  $3 \times 8,000 = \underline{\hspace{2cm}}$

9.  $5 \times 500 = \underline{\hspace{2cm}}$

10.  $9 \times 4,000 = \underline{\hspace{2cm}}$

## Problem Solving

11. A bank teller has 7 rolls of coins. Each roll has 40 coins. How many coins does the bank teller have?

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12. Theo buys 5 packages of paper. There are 500 sheets of paper in each package. How many sheets of paper does Theo buy?

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13. Explain how finding  $7 \times 20$  is similar to finding  $7 \times 2,000$ . Then find each product.

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## Lesson Check

14. A plane is traveling at a speed of 400 miles per hour. How far will the plane travel in 5 hours?
15. One week, a clothing factory made 2,000 shirts in each of 6 different colors. How many shirts did the factory make in all?

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## Spiral Review

16. Write a comparison sentence to represent this equation.
- $$6 \times 7 = 42$$
17. The population of Middleton is six thousand, fifty-four people. Write this number in standard form.

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18. In an election for mayor, 85,034 people voted for Carl Green and 67,952 people voted for Maria Lewis. By how many votes did Carl Green win the election?
19. Freya picked 4 times as many green peppers as red peppers. If she picked a total of 20 peppers, how many green peppers did she pick?

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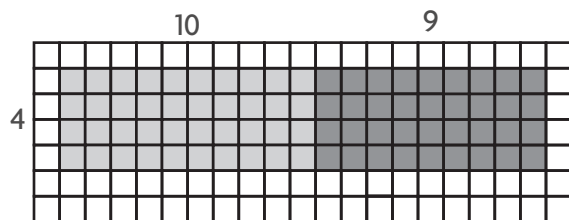
# Multiply Using the Distributive Property

Go Online

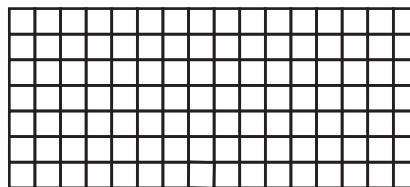
Interactive Examples

Model the product on the grid. Record the product.

1.  $4 \times 19 = \underline{76}$



2.  $5 \times 13 = \underline{\hspace{2cm}}$

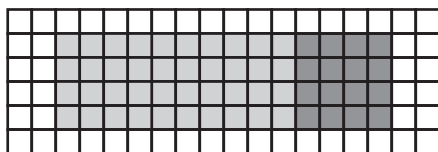


$4 \times 10 = 40$  and  $4 \times 9 = 36$

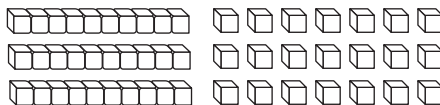
$40 + 36 = 76$

Find the product.

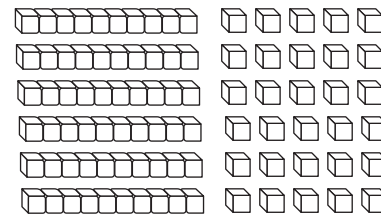
3.  $4 \times 14 = \underline{\hspace{2cm}}$



4.  $3 \times 17 = \underline{\hspace{2cm}}$

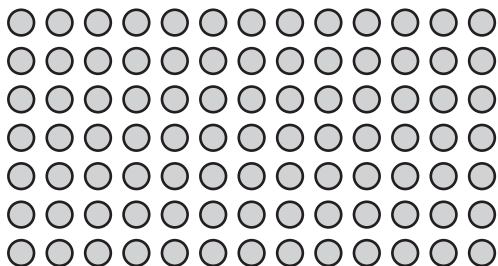


5.  $6 \times 15 = \underline{\hspace{2cm}}$




## Problem Solving

6. Michael arranged his pennies in the following display.



How many pennies does Michael have in all?

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7. **WRITE**  *Math* Explain how you can use a model to find  $6 \times 17$ .

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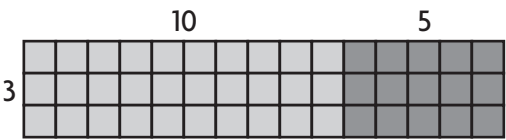
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Lesson Check

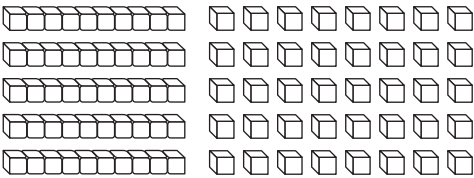
8. The model shows how Gig planted flowers in his garden.



How many flowers did Gig plant?

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9. The model below represents the expression  $5 \times 18$ .



How many tens will there be in the final product?

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Spiral Review

10. Center City has a population of twenty-one thousand, seventy people. Write the population in standard form.

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11. Central School collected 12,516 pounds of newspaper to recycle. Eastland School collected 12,615 pounds of newspapers. How many more pounds of newspaper did Eastland School collect than Central School?

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12. Imelda has 5 times as many baseball cards as football cards. In all, she has 120 baseball and football cards. How many baseball cards does Imelda have?

\_\_\_\_\_

13. A ruby-throated hummingbird beats its wings about 53 times each second. About how many times does a ruby-throated hummingbird beat its wings in 5 seconds?

\_\_\_\_\_

# Multiply Using Expanded Form

Go Online

Interactive Examples

Record the product. Use expanded form to help.

1.  $7 \times 14 = \underline{\hspace{2cm}} \quad \mathbf{98}$

$$\begin{aligned} 7 \times 14 &= 7 \times (10 + 4) \\ &= (7 \times 10) + (7 \times 4) \\ &= 70 + 28 \\ &= 98 \end{aligned}$$

2.  $8 \times 43 = \underline{\hspace{2cm}}$

3.  $6 \times 532 = \underline{\hspace{2cm}}$

4.  $5 \times 923 = \underline{\hspace{2cm}}$

## Problem Solving

5. The fourth-grade students at Riverside School are going on a field trip. There are 68 students on each of the 4 buses. How many students are going on the field trip?

6. There are 5,280 feet in one mile. Fatima likes to walk 5 miles each week for exercise. How many feet does Fatima walk each week?

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7.  Explain how you can find  $3 \times 584$  using expanded form.

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## Lesson Check

8. Write an expression that shows how to multiply  $7 \times 256$  using expanded form and the Distributive Property.
9. Sue uses the expression  $(8 \times 3,000) + (8 \times 200) + (8 \times 9)$  to help solve a multiplication problem. What is Sue's multiplication problem?

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## Spiral Review

10. What is another way to write  $9 \times 200$ ?
11. What is the value of the digit 4 in 46,000?

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12. Zaide bought 6 packages of napkins for his restaurant. There were 200 napkins in each package. How many napkins did Zaide buy?
13. List these numbers in order from **least** to **greatest**.  
8,251; 8,125; 8,512

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# Multiply Using Partial Products

Go Online

Interactive Examples

**Estimate. Then record the product.**

1. Estimate: 1,200

$$\begin{array}{r} 243 \\ \times 6 \\ \hline 1,200 \\ 240 \\ + 18 \\ \hline 1,458 \end{array}$$

2. Estimate: \_\_\_\_\_

$$\begin{array}{r} 640 \\ \times 3 \\ \hline \end{array}$$

3. Estimate: \_\_\_\_\_

$$\begin{array}{r} \$149 \\ \times 5 \\ \hline \end{array}$$

4. Estimate: \_\_\_\_\_

$$\begin{array}{r} 721 \\ \times 8 \\ \hline \end{array}$$

5. Estimate: \_\_\_\_\_

$$\begin{array}{r} 293 \\ \times 4 \\ \hline \end{array}$$

6. Estimate: \_\_\_\_\_

$$\begin{array}{r} \$416 \\ \times 6 \\ \hline \end{array}$$

7. Estimate: \_\_\_\_\_

$$\begin{array}{r} 961 \\ \times 2 \\ \hline \end{array}$$

8. Estimate: \_\_\_\_\_

$$\begin{array}{r} 837 \\ \times 9 \\ \hline \end{array}$$

## Problem Solving



9. A maze at a county fair is made from 275 bales of hay. The maze at the state fair is made from 4 times as many bales of hay. How many bales of hay are used for the maze at the state fair?

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10. Pedro gets 8 hours of sleep each night. How many hours does Pedro sleep in a year with 365 days?

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11. **WRITE** *Math* Explain how you can find  $4 \times 754$  using two different methods.

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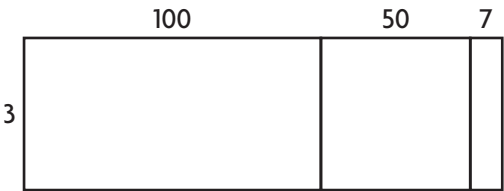


Lesson Check

12. A passenger jet flies at an average speed of 548 miles per hour. At that speed, how many miles does the plane travel in 4 hours?

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13. Use the model to find  $3 \times 157$ .



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Spiral Review

14. The school fun fair made \$1,768 on games and \$978 on food sales. How much money did the fun fair make on games and food sales?

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\_\_\_\_\_

15. Use the table below.

| State        | Population |
|--------------|------------|
| North Dakota | 646,844    |
| Alaska       | 698,473    |
| Vermont      | 621,760    |

List the states from least to greatest population.

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\_\_\_\_\_

16. A National Park covers 218,375 acres. What is this number written in expanded form?

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17. Last year a business had profits of \$8,000. This year its profits are 5 times as great. What are this year's profits?

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