

**Cross out the extra numerical information and solve.**

*Show your work.*

- ① A gymnastic meet is 2 hours long. It has 8 competitors and each competes in 4 events. How many events will be scored?
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- ② George makes \$20 doing lawn work for 4 hours each week. He wants to buy a \$2,500 used car from his grandmother. He has been saving this money for 30 weeks. How much has he saved?
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**Tell what additional information is needed to solve the problem.**

- ③ Michelle is saving \$20 each week for the bike of her dreams. How long until she can purchase her bike?
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- ④ A teacher sees a sale on packages of pencils. She wants to give each of her students a pencil. How many packages should she buy?
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**Solve each problem and label your answer. Write hidden questions if you need to.**

- ⑤ There are 18 windows on each side of a rectangular building. It takes the window washer 3 minutes to wash each window. How many minutes will it take to finish the job?
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- ⑥ The school office prints a newsletter every month that uses 2 pieces of paper. They make 35 copies for each room. How many pieces of paper do they need to print copies for 10 rooms?
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Add or subtract.

$$\begin{array}{r} \textcircled{1} \quad 5,900 \\ - 1,386 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 54,371 \\ + 12,703 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 800,000 \\ - 753,192 \\ \hline \end{array}$$

Solve using any numerical method. Use rounding and estimating to check your work.

$$\begin{array}{r} \textcircled{4} \quad 83 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad 36 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 94 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 44 \\ \times 8 \\ \hline \end{array}$$

Draw a rectangle model. Solve using any method that relates to the model.

$$\textcircled{8} \quad 6 \times 358 = \underline{\hspace{2cm}}$$

$$\textcircled{9} \quad 4 \times 692 = \underline{\hspace{2cm}}$$

- 10 Stretch Your Thinking** Write a word problem that involves multiplication and addition. Include extra numerical information. Solve the problem, showing your work.

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## 2-12 Homework

Name \_\_\_\_\_

Date \_\_\_\_\_

Sketch an area model for each exercise. Then find the product.

1  $74 \times 92$  \_\_\_\_\_

2  $65 \times 37$  \_\_\_\_\_

3  $55 \times 84$  \_\_\_\_\_

4  $49 \times 63$  \_\_\_\_\_

5  $34 \times 52$  \_\_\_\_\_

6  $24 \times 91$  \_\_\_\_\_

7 Write a word problem for one exercise above.

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What is 851,632 rounded to the nearest:

- ① hundred? \_\_\_\_\_
- ② thousand? \_\_\_\_\_
- ③ ten thousand? \_\_\_\_\_
- ④ hundred thousand? \_\_\_\_\_

Compare using  $>$ ,  $<$ , or  $=$ .

- ⑤ 58,320 ○ 58,320
- ⑥ 642,810 ○ 64,281
- ⑦ 427,900 ○ 428,000
- ⑧ 71,253 ○ 409,135

Draw a rectangle model. Solve using any method that relates to the model.

- ⑨  $6 \times 358 =$  \_\_\_\_\_
- ⑩  $4 \times 692 =$  \_\_\_\_\_

Tell what additional information is needed to solve the problem.

- ⑪ Rosalina knitted 8 scarves for gifts. She used 38 feet of yarn for each scarf. How much did Rosalina spend on the yarn?

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- ⑫ **Stretch Your Thinking** How many smaller rectangles are there in an area model that represents  $27 \times 83$ ? Why? What are their dimensions?

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Multiply using any method. If you use an area model to multiply, show your sketch.

1  $45 \times 79$

\_\_\_\_\_

2  $88 \times 29$

\_\_\_\_\_

3  $74 \times 57$

\_\_\_\_\_

4  $84 \times 68$

\_\_\_\_\_

Mr. Gomez's class is learning about multiplication. The class wants to see what multiplications they can find in their school. Solve each problem.

- 5 The class counts 37 tiles across the front of their room and 64 tiles down one side. How many floor tiles are in their classroom?

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- 6 The back of their classroom is a brick wall. Down one side, they count 26 rows of bricks. Across the bottom, they count 29 bricks. How many bricks make up the wall?

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- 7 In the school, there are 3 classrooms for each grade: kindergarten, 1, 2, 3, 4, 5, and 6. Each classroom has 32 lockers. How many lockers are there in the school building?

\_\_\_\_\_

- 8 The school auditorium has 69 rows of seats. Each row has 48 seats across. If 6,000 people want to see the school talent show, how many times do the students have to do the show?

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Write two multiplication word problems of your own. Then solve each problem.

- 9 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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- 10 \_\_\_\_\_  
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Estimate each sum. Then solve to check your estimate.

①  $289 + 503$  \_\_\_\_\_

②  $4,199 + 684$  \_\_\_\_\_

③  $8,128 + 895$  \_\_\_\_\_

Cross out the extra numerical information and solve.

*Show your work.*

- ④ Marlene is making 4 batches of muffins for her drama party. Each batch requires 2 cups of flour and makes 24 muffins. How many muffins will Marlene have for the party?

\_\_\_\_\_

- ⑤ One pack of batteries costs \$6 and contains 9 batteries. Trevor bought 3 packs of batteries. How much did Trevor spend on batteries?

\_\_\_\_\_

Sketch an area model for each exercise. Then find the product.

⑥  $54 \times 38$  \_\_\_\_\_

⑦  $49 \times 75$  \_\_\_\_\_

- ⑧ **Stretch Your Thinking** Jackson used the Shortcut Method to multiply  $84 \times 37$ . Did he do it correctly? Explain.

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$$\begin{array}{r} 1 \\ 2 \\ 84 \\ \times 37 \\ \hline 588 \\ + 252 \\ \hline 840 \end{array}$$

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

1  $45 \times 61$

\_\_\_\_\_

2  $24 \times 56$

\_\_\_\_\_

3  $83 \times 27$

\_\_\_\_\_

4  $39 \times 48$

\_\_\_\_\_

5  $36 \times 96$

\_\_\_\_\_

6  $63 \times 87$

\_\_\_\_\_

7  $58 \times 79$

\_\_\_\_\_

8  $15 \times 92$

\_\_\_\_\_

9  $33 \times 43$

\_\_\_\_\_

10  $76 \times 29$

\_\_\_\_\_

11  $69 \times 63$

\_\_\_\_\_

12  $84 \times 23$

\_\_\_\_\_

Subtract. Then use addition to check the subtraction.  
Show your work.

1  $8,960 - 1,238 =$  \_\_\_\_\_

2  $5,418 - 5,269 =$  \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Sketch an area model for each exercise. Then find the product.

3  $28 \times 94$  \_\_\_\_\_

4  $63 \times 88$  \_\_\_\_\_

Use any method to solve. Sketch an area model if you need to.

5  $66 \times 24$  \_\_\_\_\_

6  $27 \times 83$  \_\_\_\_\_

7  $79 \times 35$  \_\_\_\_\_

- 8 **Stretch Your Thinking** Kia is printing packets of information. There are 23 pages in a packet, and she needs enough copies for 52 people. Each package of paper contains 200 sheets. She estimates she needs 5 packages of paper to print the packets. Will she have enough paper? Explain.

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## 2-15 Homework

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve using any method and show your work.  
Check your work with estimation.

1  $55 \times 64$

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2  $42 \times 67$

\_\_\_\_\_

3  $59 \times 32$

\_\_\_\_\_

4  $78 \times 44$

\_\_\_\_\_

5  $62 \times 23$

\_\_\_\_\_

6  $53 \times 28$

\_\_\_\_\_

7  $71 \times 35$

\_\_\_\_\_

8  $22 \times 66$

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Solve.

*Show your work.*

- 9 Keesha walks 12 blocks to school every day. One day, she counts 88 sidewalk squares in one block. If each block has the same number of sidewalk squares, how many squares does Keesha walk on as she walks *to* and *from* school each day?

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- 10 The Card Collector's Club is having a meeting. Each member brings 25 sports cards to show and trade. If 35 members attend, how many cards do they bring altogether?

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- 11 On a separate sheet of paper, write and solve your own multiplication word problem.

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**2-15**  
**Remembering**

Name \_\_\_\_\_

Date \_\_\_\_\_

Add or subtract.

① 
$$\begin{array}{r} 4,659 \\ + 2,047 \\ \hline \end{array}$$

② 
$$\begin{array}{r} 9,380 \\ + 1,599 \\ \hline \end{array}$$

③ 
$$\begin{array}{r} 248,266 \\ - 147,852 \\ \hline \end{array}$$

Use any method to solve. Sketch an area model if you need to.

④  $26 \times 18$

\_\_\_\_\_

⑤  $35 \times 64$

\_\_\_\_\_

⑥  $82 \times 73$

\_\_\_\_\_

⑦  $91 \times 23$

\_\_\_\_\_

Solve using any method. Use rounding and estimation to check your work.

⑧  $17 \times 44$

\_\_\_\_\_

⑨  $62 \times 74$

\_\_\_\_\_

⑩  $53 \times 89$

\_\_\_\_\_

⑪  $32 \times 96$

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⑫ **Stretch Your Thinking** Greyson is planning to lay a brick driveway which will be made up of 84 rows of 14 bricks per row. He will also lay a backyard patio with 25 rows of 31 bricks per row. How many pallets of bricks should Greyson order if each pallet has 1,000 bricks? Show your work.

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**2-16**  
**Homework**

Name \_\_\_\_\_

Date \_\_\_\_\_

Sketch a rectangle for each problem and solve using any method that relates to your sketch.

**1**  $8 \times 6,000$   
\_\_\_\_\_

**2**  $6 \times 3,542$   
\_\_\_\_\_

**3**  $7 \times 3,124$   
\_\_\_\_\_

**4**  $5 \times 7,864$   
\_\_\_\_\_

- 5** A school is participating in a raffle to raise money for a local organization. The school puts 1,295 raffle tickets in each bag. The school has 7 bags of raffle tickets. How many raffle tickets has the school collected?

*Show your work.*

- 6** A dance company has scheduled 4 performances at a theater. The theater has 2,763 seats. Every ticket has been sold for each of the performances. How many tickets were sold in all?

- 7** An amusement park has about 3,600 visitors each day. About how many visitors does the amusement park have in one week?

Add or subtract.

$$\begin{array}{r} \textcircled{1} \quad 23,152 \\ - 10,894 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 308,000 \\ - 175,296 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 827,381 \\ + 154,338 \\ \hline \end{array}$$

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

$$\textcircled{4} \quad 21 \times 36$$

\_\_\_\_\_

$$\textcircled{5} \quad 48 \times 16$$

\_\_\_\_\_

$$\textcircled{6} \quad 53 \times 99$$

\_\_\_\_\_

$$\textcircled{7} \quad 64 \times 72$$

\_\_\_\_\_

Solve using any method and show your work. Check your work with estimation.

$$\textcircled{8} \quad 45 \times 91$$

\_\_\_\_\_

$$\textcircled{9} \quad 26 \times 33$$

\_\_\_\_\_

$$\textcircled{10} \quad 47 \times 52$$

\_\_\_\_\_

$$\textcircled{11} \quad 87 \times 14$$

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**12 Stretch Your Thinking** Lily says that  $4 \times 7,000$  has the same product as  $7 \times 4,000$ . Is she correct? Explain using the Associative Property of Multiplication.

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On a separate sheet of paper, sketch a rectangle for each problem and solve using any method. Round and estimate to check your answer.

①  $5 \times 4,751$  \_\_\_\_\_

②  $7 \times 6,000$  \_\_\_\_\_

③  $6 \times 5,214$  \_\_\_\_\_

④  $8 \times 3,867$  \_\_\_\_\_

- ⑤ Describe the steps you used for one of your solutions to Exercises 1–4.

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A fourth grade class is counting the supplies in the school's art closet. Help them to finish their count.

*Show your work.*

- ⑥ They have 6 rolls of white craft paper. The paper on the rolls is 1,275 feet long. How many feet of craft paper do they have altogether?

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- ⑦ They counted 592 boxes of color pencils and 468 boxes of markers. If each box holds 8 pencils or markers, how many color pencils and markers do they have altogether?

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- ⑧ They found 9 boxes of glass beads. There are 1,376 beads per box. How many glass beads do they have in all?

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- ⑨ They found 7 cases of sketching paper. If each case has 2,500 sheets of paper, how many sheets of sketching paper do they have in all?

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Add or subtract.

$$\begin{array}{r} \textcircled{1} \quad 82,905 \\ - 81,927 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 53,742 \\ + 93,587 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 400,000 \\ - 162,947 \\ \hline \end{array}$$

Solve.

*Show your work.*

- $\textcircled{4}$  Marta bought 18 sheets of stickers for her sticker album. Each sheet contained 32 stickers. How many stickers did Marta buy for her sticker album?

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Draw a rectangle model. Solve using any method that relates to the model.

$\textcircled{5} \quad 3 \times 2,816$  \_\_\_\_\_

$\textcircled{6} \quad 7 \times 1,578$  \_\_\_\_\_

- $\textcircled{7}$  **Stretch Your Thinking** Zoe rounded  $6 \times 8,493$  to  $6 \times 8,000$ . Andrew rounded  $6 \times 8,493$  to  $6 \times 9,000$ . Who will have an estimate closer to the actual product? How do you know? Explain another way to estimate  $6 \times 8,493$  that would give a better estimate.

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**2-18**  
**Homework**

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve using any method and show your work. Check your work with estimation.

①  $6 \times 88$   
\_\_\_\_\_

②  $62 \times 32$   
\_\_\_\_\_

③  $3 \times 3,719$   
\_\_\_\_\_

④ 
$$\begin{array}{r} 63 \\ \times 4 \\ \hline \end{array}$$

⑤ 
$$\begin{array}{r} 523 \\ \times 8 \\ \hline \end{array}$$

⑥ 
$$\begin{array}{r} 39 \\ \times 19 \\ \hline \end{array}$$

⑦ 
$$\begin{array}{r} 84 \\ \times 47 \\ \hline \end{array}$$

⑧ 
$$\begin{array}{r} 2,858 \\ \times 9 \\ \hline \end{array}$$

⑨ 
$$\begin{array}{r} 541 \\ \times 6 \\ \hline \end{array}$$

**Solve.**

- ⑩ Mr. Jackson goes on vacation for 22 days. He pays \$17 each day he is gone for Holly's Home Service to get the mail, walk the dog, and water the plants. How much does Mr. Jackson pay Holly's Home Service for the time he is on vacation?
- \_\_\_\_\_

- ⑪ A contractor needs to know the area of a sidewalk that is 2,381 feet long and 7 feet wide. What is the area of the sidewalk?
- \_\_\_\_\_

Add or subtract.

$$\begin{array}{r} 1 \quad 38,560 \\ + 16,429 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 272,311 \\ - 164,838 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 815,007 \\ + 174,399 \\ \hline \end{array}$$

Draw a rectangle model. Solve using any method that relates to the model.

$$4 \quad 9 \times 4,572 \quad \underline{\hspace{2cm}}$$

$$5 \quad 4 \times 8,386 \quad \underline{\hspace{2cm}}$$

A grocery store clerk is ordering produce for the month. Help him find how many snap peas and garlic bulbs are in his order.

*Show your work.*

- 6 He orders 4 crates of snap peas. Each crate contains 3,275 snap peas. How many snap peas is he ordering?

\_\_\_\_\_

- 7 He orders 9 boxes of garlic bulbs. Each box contains 1,930 bulbs of garlic. How many garlic bulbs is he ordering?

\_\_\_\_\_

- 8 **Stretch Your Thinking** A videographer earns \$485 for every wedding he records and \$18 for every extra copy of the video his customers order. How much money does the videographer earn in a summer during which he records 34 videos and has 87 orders for extra copies? Show your work.

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**2-19**  
**Homework**

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve using any method and show your work. Check your work with estimation.

**1**  $3 \times 45$   
\_\_\_\_\_

**2**  $32 \times 82$   
\_\_\_\_\_

**3**  $9 \times 2,477$   
\_\_\_\_\_

**4** 
$$\begin{array}{r} 86 \\ \times 4 \\ \hline \end{array}$$

**5** 
$$\begin{array}{r} 419 \\ \times 6 \\ \hline \end{array}$$

**6** 
$$\begin{array}{r} 76 \\ \times 39 \\ \hline \end{array}$$

**7** 
$$\begin{array}{r} 23 \\ \times 95 \\ \hline \end{array}$$

**8** 
$$\begin{array}{r} 6,965 \\ \times 8 \\ \hline \end{array}$$

**9** 
$$\begin{array}{r} 746 \\ \times 5 \\ \hline \end{array}$$

Solve.

- 10** Simon makes an array that is 47 units wide and 33 units long. What is the area of Simon's array?

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- 11** A farmer plants vegetables in rows. He plants 36 rows of carrots with 13 carrot seeds in each row. How many carrot seeds did the farmer plant?

\_\_\_\_\_

Add or subtract.

$$\begin{array}{r} \textcircled{1} \quad 563,902 \\ - 153,884 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 327,148 \\ - 123,960 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 650,295 \\ + 101,586 \\ \hline \end{array}$$

Sketch a rectangle model and solve using any method.  
Round and estimate to check your answer.

$$\textcircled{4} \quad 6 \times 3,916 \quad \underline{\hspace{2cm}}$$

$$\textcircled{5} \quad 7 \times 2,843 \quad \underline{\hspace{2cm}}$$

Solve using any method and show your work. Check your work with estimation.

$$\textcircled{6} \quad 7 \times 43 \quad \underline{\hspace{2cm}}$$

$$\textcircled{7} \quad 48 \times 26 \quad \underline{\hspace{2cm}}$$

$$\textcircled{8} \quad 4,715 \times 3 \quad \underline{\hspace{2cm}}$$

$$\begin{array}{r} \textcircled{9} \quad 62 \\ \times 91 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad 849 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad 5,293 \\ \times 4 \\ \hline \end{array}$$

- 12 Stretch Your Thinking** LaDonne has a budget of \$240 for new school clothes. She needs at least two new shirts, two new pairs of pants, and one new pair of shoes. The shirts cost \$18 each. The pants cost \$32 each. The shoes cost \$49 per pair. Plan two different combinations of numbers of shirts, pants, and shoes that LaDonne could buy within her budget. What is the total cost for each buying plan?

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