

Name \_\_\_\_\_

## Chapter 3 Review/Test



**Personal Math Trainer**

Online Assessment  
and Intervention

1. Explain how to find  $40 \times 50$  using mental math.

2. Mrs. Traynor's class is taking a field trip to the zoo. The trip will cost \$26 for each student. There are 22 students in her class.

### Part A

Round each factor to estimate the total cost of the students' field trip.

### Part B

Use compatible numbers to estimate the total cost of the field trip.

### Part C

Which do you think is the better estimate? Explain.

3. For numbers 3a–3e, select Yes or No to show if the answer is correct.

3a.  $35 \times 10 = 350$        Yes       No

3b.  $19 \times 20 = 380$        Yes       No

3c.  $12 \times 100 = 120$        Yes       No

3d.  $70 \times 100 = 7,000$        Yes       No

3e.  $28 \times 30 = 2,100$        Yes       No

4. There are 23 boxes of pencils in Mr. Shaw's supply cabinet. Each box contains 100 pencils. How many pencils are in the supply cabinet?

\_\_\_\_\_ pencils

5. Which would provide a reasonable estimate for each product? Write the estimate beside the product. An estimate may be used more than once.

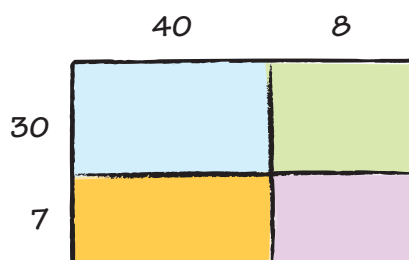
$50 \times 20$	$25 \times 40$	$30 \times 30$
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$23 \times 38$         $46 \times 18$

$31 \times 32$         $39 \times 21$

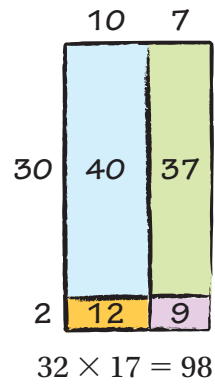
6. There are 26 baseball teams in the league. Each team has 18 players. Write a number sentence that will provide a reasonable estimate for the number of players in the league. Explain how you found your estimate.

7. The model shows  $48 \times 37$ . Write the partial products.



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8. Jess made this model to find the product  $32 \times 17$ . Her model is incorrect.



**Part A**

What did Jess do wrong?

**Part B**

Redraw the model so that it is correct.



**Part C**

What is the actual product  $32 \times 17$ ?

\_\_\_\_\_

9. Tatum wants to use partial products to find  $15 \times 32$ . Write the numbers in the boxes to show  $15 \times 32$ .

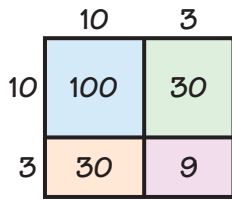
$$\left( \square \times \square \right) + \left( \square \times \square \right) + \left( \square \times \square \right) + \left( \square \times \square \right)$$

10. Which product is shown by the model? Write the letter of the product on the line below the model.

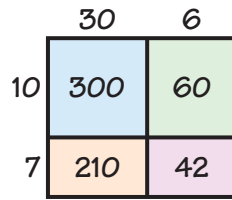
**A**  $17 \times 36$

**B**  $24 \times 14$

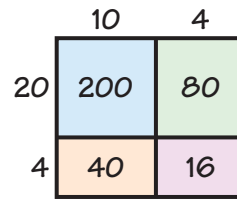
**C**  $13 \times 13$



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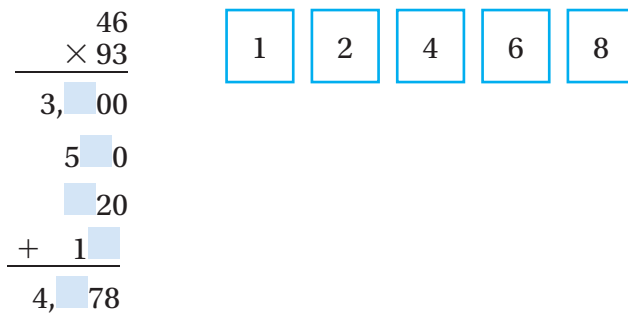
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11. **GO DEEPER** Mrs. Jones places 3 orders for school T-shirts. Each order has 16 boxes of shirts and each box holds 17 shirts. How many T-shirts does Mrs. Jones order? Use partial products to help you.

12. Write the unknown digits. Use each digit exactly once.



13. Mike has 16 baseball cards. Niko has 17 times as many baseball cards as Mike does. How many baseball cards does Niko have?

\_\_\_\_\_ baseball cards

14. Multiply.

$36 \times 28 =$  \_\_\_\_\_

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15. A farmer planted 42 rows of tomatoes with 13 plants in each row. How many tomato plants did the farmer grow?

$42 \times 13 =$  \_\_\_\_\_ tomato plants

16. Select another way to show  $25 \times 18$ . Mark all that apply.

- $(20 \times 10) + (20 \times 8) + (5 \times 10) + (5 \times 8)$
- $(25 \times 20) + (25 \times 5) + (25 \times 10) + (25 \times 8)$
- $(20 \times 18) + (5 \times 10) + (5 \times 8)$
- $(25 \times 10) + (25 \times 8)$
- $(25 \times 20) + (25 \times 5)$

17. Terrell runs 15 sprints. Each sprint is 65 meters. How many meters does Terrell run? Show your work.

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18. **THINK SMARTER +** There are 3 new seats in each row in a school auditorium. There are 15 rows in the auditorium. Each new seat cost \$74. What is the cost for the new seats? Explain how you found your answer.

19. Ray and Ella helped move their school library to a new building. Ray packed 27 boxes with 25 books in each box. Ella packed 23 boxes with 30 books in each box. How many more books did Ella pack? Show your work.

20. Julius and Walt are finding the product of 25 and 16.

Julius

Walt

**Part A**

$$\begin{array}{r} 25 \\ \times 16 \\ \hline 150 \\ + 250 \\ \hline 500 \end{array}$$

$$\begin{array}{r} 25 \\ \times 16 \\ \hline 200 \\ 50 \\ 120 \\ + 300 \\ \hline 670 \end{array}$$

Julius' answer is incorrect. What did Julius do wrong?

**Part B**

What did Walt do wrong?

**Part C**

What is the correct product?

21. A clothing store sells 26 shirts and 22 pairs of jeans. Each item of clothing costs \$32.

**Part A**

What is a reasonable estimate for the total cost of the clothing?  
Show or explain how you found your answer.

**Part B**

What is the exact answer for the total cost of the clothing? Show or explain how you found your answer.