

Chapter 1 Review/Test



1. Find the property that each equation shows.
Write the equation in the correct box.

$$15 \times (7 \times 9) = (15 \times 7) \times 9$$

$$23 + 4 + 109 = 4 + 23 + 109$$

$$13 + (3 + 7) = (13 + 3) + 7$$

$$87 \times 3 = 3 \times 87$$

$$1 \times 9 = 9$$

$$0 + 16 = 16$$

<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Identity Property of Addition</div>	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Commutative Property of Multiplication</div>	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Identity Property of Multiplication</div>
<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Associative Property of Multiplication</div>	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Commutative Property of Addition</div>	<div style="border: 1px solid black; padding: 5px; width: 80%; margin: auto;">Associative Property of Addition</div>

2. For 2a-2d, select True or False for each statement.

2a. 170 is $\frac{1}{10}$ of 17 True False

2b. 660 is 10 times as much as 600 True False

2c. 900 is $\frac{1}{10}$ of 9,000 True False

2d. 4,400 is 10 times as much as 440 True False

3. Select other ways to write 700,562. Mark all that apply.

(A) $(7 \times 100,000) + (5 \times 1,000) + (6 \times 10) + (2 \times 1)$

(B) seven hundred thousand, five hundred sixty-two

(C) $700,000 + 500 + 60 + 2$

(D) 7 hundred thousands + 5 hundreds + 62 tens

4. Carrie has 140 coins. She has 10 times as many coins as she had last month. How many coins did Carrie have last month?

_____ coins

5. Valerie earns \$24 per hour. Which expression can be used to show how much money she earns in 7 hours?

(A) $(7 + 20) + (7 + 4)$

(B) $(7 \times 20) + (7 \times 4)$

(C) $(7 + 20) \times (7 + 4)$

(D) $(7 \times 20) \times (7 \times 4)$

6. The table shows the equations Ms. Valez discussed in math class today.

Equations
$6 \times 10^0 = 6$
$6 \times 10^1 = 60$
$6 \times 10^2 = 600$
$6 \times 10^3 = 6,000$

Explain the pattern of zeros in the product when multiplying by powers of 10.

Name _____

7. It is 3,452 miles round trip to Craig's aunt's house. If he travels to her house 3 times this year, how many miles did he travel in all?

_____ miles

8. Lindsey earns \$33 per day at her part-time job. Complete the table to show the total amount Lindsey earns.

Lindsey's Earnings	
Number of Days	Total Amount
3	
8	
14	

Personal Math Trainer



9. **THINK SMARTER +** Jackie followed these steps to evaluate the expression $15 - (37 + 8) \div 3$.

$$37 + 8 = 45$$

$$45 - 15 = 30$$

$$30 \div 3 = 10$$

Mark looks at Jackie's work and says she made a mistake. He says she should have divided by 3 before she subtracted.

Part A

Which student is correct? Explain how you know.

Part B

Evaluate the expression.

10. Carmine buys 8 plates for \$1 each. He also buys 4 bowls. Each bowl costs twice as much as each plate. The store is having a sale that gives Carmine \$3 off the bowls. Which numerical expression shows how much he spent?

A $(8 \times 1) + [(4 \times 16) - 3]$

B $(8 \times 1) + [4 \times (16 - 3)]$

C $(8 \times 1) + [(4 \times 2) - 3]$

D $(8 \times 4) + [(4 \times 2) - 3]$

11. Evaluate the numerical expression.

$2 + (65 + 7) \times 3 =$

12. An adult elephant eats about 300 pounds of food each day. Write an expression to represent the number of pounds of food a herd of 12 elephants eat in 5 days.

13. Jason is solving a homework problem.

Arianna buys 5 boxes of granola bars. Each box contains 12 granola bars. Arianna eats 4 bars.

Jason writes a numerical expression to represent the situation. His expression, $(12 - 4) \times 5$, has a mistake.

Part A

Explain Jason's mistake.

Part B

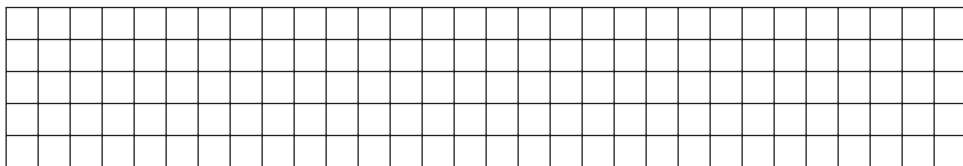
Write an expression to show how many granola bars are left, and then solve it.

Name _____

14. Paula collected 75 stickers. She shares her stickers with 5 of her friends equally. How many stickers will each friend get?

Part A

Use the array to show your answer.



Part B

Use the multiplication sentence to complete the division sentence.

$5 \times \boxed{} = 75$

$75 \div 5 = \boxed{}$

15. **GO DEEPER** Mario is making dinner for 9 people. Mario buys 6 containers of soup. Each container is 18 ounces. If everyone gets the same amount of soup, how much soup will each person get? How can you solve a simpler problem to help you find the solution?

16. Jill wants to find the quotient. Use multiplication and the Distributive Property to help Jill find the quotient.

$144 \div 8 = \boxed{}$

Multiplication

Distributive Property

17. If Jeannie eats 1,840 calories a day, how many calories will she have eaten after 182 days?

_____ calories

18. There are 8 teachers going to the science museum. If each teacher pays \$15 to get inside, how much did the teachers pay?

\$ _____

19. Select other ways to write 50,897. Mark all that apply.

- A $(5 \times 10,000) + (8 \times 100) + (9 \times 10) + (7 \times 1)$
- B $50,000 + 800 + 90 + 7$
- C $5,000 + 800 + 90 + 7$
- D fifty thousand, eight hundred ninety-seven

20. For numbers 20a-20b, select True or False.

20a. $55 - (12 + 2)$, value: 41 True False

20b. $25 + (14 - 4) \div 5$, value: 27 True False

21. Tara bought 2 bottles of juice a day for 15 days. On the 16th day, Tara bought 7 bottles of juice.

Write an expression that matches the words.

22. Select other ways to express 10^2 . Mark all that apply.

- A 20
- B 100
- C $10 + 2$
- D 10×2
- E $10 + 10$
- F 10×10