1. Find the property that each equation shows.

Write the equation in the correct box.

$11 \times (4 \times 6) = (11 \times 4) \times 6$	$14 + 27 + 18 = 27 + 14 + 18$
$15 + (12 + 11) = (15 + 12) + 11$	$18 \times 2 = 2 \times 18$
$5 \times 1 = 5$	$72 + 0 = 72$

Commutative Property of Multiplication	Associative Property of Addition	Identity Property of Addition
Commutative Property of Addition	Associative Property of Multiplication	Identity Property of Multiplication

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

2a. 50 is $\frac{1}{10}$ of 500. ○ True ○ False

2b. 290 is 10 times as much as 2,900. ○ True ○ False

2c. 6,500 is 10 times as much as 65. ○ True ○ False

2d. 700 is 10 times as much as 70. ○ True ○ False

GO ON

3. Select other ways to write 304,672. Mark all that apply.

Ⓐ $(3 \times 100{,}000) + (4 \times 1{,}000) + (6 \times 100) + (7 \times 10) + (2 \times 1)$

Ⓑ three hundred forty thousands, six hundred seventy-two

Ⓒ $300{,}000 + 4{,}000 + 600 + 70 + 2$

Ⓓ 30 hundred thousand + 4 thousands + 6 hundreds + 70 tens + 2 ones

4. Erica earned 30,000 bonus points on her computer assignment. This is 10 times as many bonus points as she earned last week. How many bonus points did Erica earn last week?

_____ points

5. Rich earns $35 per week mowing lawns in his neighborhood. Which expression can be used to show how much money he earns in 8 weeks?

Ⓐ $(8 + 30) + (8 + 5)$

Ⓑ $(8 \times 30) + (8 \times 5)$

Ⓒ $(8 + 30) \times (8 + 5)$

Ⓓ $(8 \times 30) \times (8 \times 5)$

6. The table shows the equations Mr. Berger discussed in math class today.

Equations
$4 \times 10^0 = 4$
$4 \times 10^1 = 40$
$4 \times 10^2 = 400$
$4 \times 10^3 = 4{,}000$

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

GO ON

7. It is 1,325 feet from Kinsey's house to her school. Kinsey walks to school each morning and gets a ride home each afternoon. How many feet does Kinsey walk to school in 5 days?

_____ feet

8. Liam saves $12 of his allowance each week. Complete the table to show the total amount Liam saves.

Liam's Savings	
Number of Weeks	**Total Amount**
4	
9	
15	

9. Kara followed these steps to evaluate the expression $22 + (30 - 4) \div 2$.

$30 - 4 = 26$

$26 + 22 = 48$

$48 \div 2 = 24$

George looks at Kara's work and says she made a mistake. He says she should have divided by 2 before she added.

Part A

Which student is correct? Explain how you know.

Part B

Evaluate the expression.

GO ON

10. Fahed buys 12 stickers for $2 each. He also buys 4 sticker albums. Each album costs twice as much as each sticker. Fahed has a coupon that gives him $2 off the sticker albums. Which numerical expression shows how much he spent?

Ⓐ $(12 \times 2) + [(4 \times 2) - 2]$ Ⓒ $(12 \times 4) + [(4 \times 4) - 2]$

Ⓑ $(12 \times 2) + [(4 \times 4) - 2]$ Ⓓ $(12 \times 4) + [(4 \times 2) + 2]$

11. Evaluate the numerical expression.

$(57 + 4) \times 4 - 16 =$ ☐

12. Paul displays his sports trophies on shelves in his room. He has 5 trophies on each of 3 shelves and 2 trophies on another shelf. Write an expression to represent the number of trophies Paul displays.

13. Veronica is solving this problem in math class.

Janelle buys 4 cases of water. Each case of water contains 12 bottles. Janelle drinks 3 bottles of water.

Veronica writes a numerical expression to represent the situation. Her expression, $(12 - 3) \times 4$, has a mistake.

Part A

Explain Veronica's mistake.

Part B

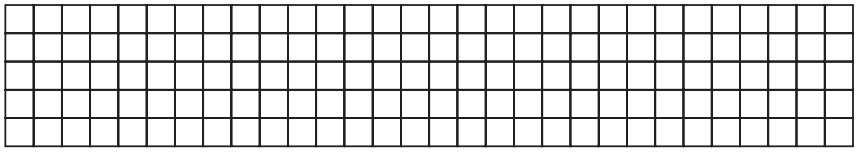
Write an expression to find how many bottles of water are left, and then solve it.

GO ON

14. Hector has 36 action figures. He separates his action figures into 4 equal groups to share with his friends. How many action figures does each friend get?

Part A

Use the array to show your answer.



Part B

Use the multiplication sentence to complete the division sentence.

$4 \times \square = 36$ $\quad$ $36 \div 4 = \square$

15. Marcus is making dinner for 7 people. Marcus opens 6 cans of soup. Each can is 14 ounces. If everyone gets the same amount of soup, how much soup will each person get? Use numbers and words to explain your answer.

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

$72 \div 4 = \square$

Multiplication

Distributive Property

GO ON

17. Marlene can type 157 words per minute. If she types at the same rate, how many words can she type in 25 minutes?

_____ words

18. There are 7 school buses taking students on a field trip. There are 37 students on each bus. How many students are going on the field trip?

_____ students

19. Select other ways to write 60,472. Mark all that apply.

Ⓐ $(6 \times 10{,}000) + (4 \times 100) + (7 \times 10) + (2 \times 1)$

Ⓑ $60{,}000 + 400 + 70 + 2$

Ⓒ sixty thousand, four hundred seventy-two

Ⓓ six thousand, four hundred seventy-two

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

20a. $42 - (9 + 6)$, value: 27 ○ True ○ False

20b. $18 + (22 - 4) \div 6$, value: 6 ○ True ○ False

21. Peter ran 3 miles a day for 17 days. On the 18th day, Peter ran 5 miles. Write an expression that matches the words.

22. Select other ways to express 10^4. Mark all that apply.

Ⓐ 10×4

Ⓑ $10 + 4$

Ⓒ 1,000

Ⓓ 10,000

Ⓔ $10 + 10 + 10 + 10$

Ⓕ $10 \times 10 \times 10 \times 10$

STOP