

Special Instructions 11/19/2024

Good morning, class,

If you are reading this, I am out sick for the day. Your instructions for today are as follows:

1. Complete the Chapter 12 Review attached to this document. It will be due by the end of class.
2. If you complete the Chapter 12 Review before class time is over, continue or finish your homework packet for this week. *That includes the “optional” IXLs posted with it.*
3. If you have completed the previous two points, move onto practice on SumDog.

Sincerely,

Mr. Vanegas

Chapter Review

1. Find the property that each equation shows.

Write the equation in the correct box.

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

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

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

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

$$1 \times 9 = 9$$

$$0 + 16 = 16$$

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

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

2a. $42 - (9 + 6)$, value 27

☐ True

☐ False

2b. $18 + (22 - 4) \div 6$, value 6

☐ True

☐ False

2c. $35 - (3 + 2) \times 3$, value 20

☐ True

☐ False

2d. $(9 - 6) \div 3$, value 1

☐ True

☐ False

3. 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?

- A** $(8 + 30) + (8 + 5)$
B $(8 \times 30) \times (8 \times 5)$
C $(8 + 30) \times (8 + 5)$
D $(8 \times 30) + (8 \times 5)$

4. Evaluate the numerical expression.

$$(57 + 4) \times 4 - 16 = \underline{\hspace{2cm}}$$

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. 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?

Part B

Evaluate the expression.

Name _____

7. 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.

8. Mariana bought 48 sandwiches that cost \$4 each. Which expression can be used to show how much money Mariana spent on sandwiches?

☐ A $(4 \times 40) \times (4 \times 8)$

☐ B $(4 + 40) \times (4 + 8)$

☐ C $(4 \times 40) + (4 \times 8)$

☐ D $(4 + 40) + (4 + 8)$

9. 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. 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.

15. Fahed buys 12 stickers for \$2 each. He also buys 4 sticker albums. Each album costs three times as much as each sticker. Fahed has a coupon that gives him \$1 off the stickers. Which numerical expression shows how much he spent?

- ☐ A $(12 \times 2 - 1) + (4 \times 3)$
- ☐ B $(12 \times 2 - 1) + (4 \times 6)$
- ☐ C $(12 \times 6 - 1) + (4 \times 6)$
- ☐ D $(12 \times 6 + 1) + (4 \times 2)$

16. Liam has 9 bags with 11 grapes in each bag. He eats 8 grapes. Write an expression to represent the number of grapes Liam has left.

17. Evaluate the numerical expression.

$$(48 - 6) \div 7 - 1 = \underline{\hspace{2cm}}$$

18. Evaluate the numerical expression.

$$(149 - 5) \div (5 + 7) = \underline{\hspace{2cm}}$$

19. Belinda drove 42 miles each day for the past 9 days. Which expression can be used to show the total number of miles Belinda drove?

☐ A $(9 \times 40) + (9 \times 2)$

☐ B $(9 + 40) + (9 + 2)$

☐ C $(9 + 40) \times (9 + 2)$

☐ D $(9 \times 40) \times (9 \times 2)$

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. Peter ran 3 miles a day for 17 days.

On the 18th day, Peter ran 2 more miles than he did the other days.

Write an expression that matches the words.