

7th Grade
Feb 8, 2021

Does anyone need
to make up the
test?

Today we will:

- Begin Unit 7 on
Expressions
- Get new table of
contents
- Watch video notes
- Begin HW



HOMWORK:


Pg 295 #13-23 and 31-35

Unit 6 Project due
TOMORROW

ALEKS assignment:
60 min and 5 topics
due TONIGHT by 11:59pm





 Name _____
VIDEO NOTES Unit ____ Lesson ____ Due Date _____



Remember the Distributive Property?

Multiplying the sum of two or more addends by a number will give the same result as multiplying each addend individually by the number and then adding the products together.

Chapter 7 Lesson 1
Distributive Property

To multiply a sum or difference by a number,
----- each term
----- the parentheses by the number
----- the parentheses.

Examples

$$a(b + c) =$$

$$a(b - c) =$$

$$(b + c)a =$$

$$(b - c)a =$$

| Examples | | | |
|--------------|--------------|--------------|--------------|
| $a(b + c) =$ | $a(b - c) =$ | $(b + c)a =$ | $(b - c)a =$ |
| | | | |
| | | | |
| | | | |
| | | | |



pg295 #13-23 and 31-35

13. $12.3(9 + 4)$
 $(12.3 \times 9) + (12.3 \times 4)$

14. $(6 + 18) \frac{2}{3}$
 $(\frac{2}{3} \cdot 6) + (\frac{2}{3} \cdot 18) =$

15. $\frac{5}{8}(20 - 4)$
 $(\frac{5}{8} \cdot 20) - (\frac{5}{8} \cdot 4)$

16. Martine bought two pairs of jeans that are on sale for \$32.85 each. Use mental math to find the total cost of the jeans. Justify your answer by using the Distributive Property. (Example 2)

17. **Financial Literacy** Sarah charges \$6.50 per hour to babysit. She babysat for 3 hours on Friday and 5 hours on Saturday. Write two equivalent expressions for her total wages. Then find her total wages. (Example 2)

Use the Distributive Property to write each expression as an equivalent algebraic expression. (Examples 3 and 4)

18. $-7.4(10 + a)$ $(-7.4 \times 10) + (-7.4 \times a)$
 $-74 + (-7.4a)$

19. $\frac{4}{5}(t - 15)$ $\frac{4}{5}t - (\frac{4}{5} \cdot 15)$

20. $3.7(r - 1)$

21. $(b + 4)12$

22. $5(x - 9)$

23. $-\frac{1}{2}(n + 4)$

Use the Distributive Property to write each expression as an equivalent numeric expression. Then evaluate the expression. (Hint: $3\frac{1}{4}$ can be written as the sum $3 + \frac{1}{4}$.)

31. $4\frac{1}{5} \cdot 5$ $(4 + \frac{1}{5}) \cdot 5 = (5 \cdot 4) + (\frac{5}{5} \cdot 1)$

32. $10 \cdot 5\frac{1}{2}$

33. $6 \cdot 4\frac{2}{3}$

34. $2\frac{2}{7} \cdot 14$

35. Aiko uses $2\frac{1}{3}$ yards of fabric to make costumes for a play. Use the Distributive Property to find how much fabric she will need if she makes 9 costumes.