

7th Grade
Feb 9, 2021

Today we will:

- Turn in project
- Review HW
- Add examples to notes
- Practice on white boards




HOMEWORK:

Video notes

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,
multiply each term
inside the parentheses by the number
outside the parentheses.

pg295 #13-23 and 31-35

13. $12.3(9 + 4)$
 $(12.3 \times 9) + (12.3 \times 4)$
 $= 159.9$

14. $(\frac{6}{5} + 18) \cdot \frac{1}{2}$
 $(\frac{6}{5} \cdot \frac{1}{2}) + (18 \cdot \frac{1}{2}) = 16$
 $1 \cdot \frac{3}{5} + 9 = 9 \frac{3}{5} = 9.6$

15. $\frac{5}{8}(20 - 4)$
 $(\frac{5}{8} \cdot 20) - (\frac{5}{8} \cdot 4) = 10$

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)

$(32 + 0.85) \times 2 = 66$
 $(33 - 0.15) \times 2 = 66$

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)

$(6.50 \times 3) + (6.50 \times 5) = 6.50(3 + 5) = \52

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. $\frac{4}{5}(t - 15)$
 $(\frac{4}{5} \cdot t) - (\frac{4}{5} \cdot 15) = \frac{4}{5}t - 12$

20. $3.7(r - 1)$
 $3.7r - 3.7$

21. $(b + 4)12$
 $12b + 48$

22. $5(x - 9)$
 $5x - 45$

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

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. $4\frac{1}{5} \cdot 5$
 $(4 + \frac{1}{5}) \cdot 5 = (4 \cdot 5) + (\frac{1}{5} \cdot 5)$
 $20 + 1 = 21$

32. $10 \cdot 5\frac{1}{2}$ **55**

33. $6 \cdot 4\frac{2}{3}$ **28**

34. $2\frac{2}{7} \cdot 14$ **32**

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.

21 yd

inside		outside	
Examples			
$a(b+c) =$	$a(b-c) =$	$(b+c)a =$	$(b-c)a =$
$ab + ac$	$ab - ac$	$ab + ac$	$ab - ac$
$5(6+7)$ $5 \cdot 6 + 5 \cdot 7$ $30 + 35$ 65	$8(9-3)$ $8 \cdot 9 - 8 \cdot 3$ $72 - 24$ 48	$(12+4)5$ $5 \cdot 12 + 5 \cdot 4$ $60 + 20 = 80$	$(20-3)8.2$ $8.2 \cdot 20 - 8.2 \cdot 3$ $164 - 24.6 =$ 139.4
$7(30+4)$	$\frac{3}{4}(9-2)$	$(6+3)4$	$(a-3)\frac{2}{3}$



$$-6(y+15)$$

$$-6y + -90$$

$$-6y - 90$$