6th Grade
March 11, 2021

Today we will:

-Collect THQ

Review yesterday's worksheet and video notes

-begin HW

I am out of pencils. If you need one, it will cost ONE DEMERIT. Going to your locker to get one also costs ONE DEMERIT.

HOMEWORK:

Pg488 WS

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

Lesson 5 Homework Practice

Algebra: Properties

Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

1. $7 \cdot (6 \cdot t)$ and $(7 \cdot 6) \cdot t$
   yes; Associative Property

2. $23 + 15$ and $15 + 23$
   yes; Commutative Property

3. $18 - (7 - 3)$ and $(18 - 7) - 3$
   no; the expressions equal 14 and 8.

4. $8 \cdot 1$ and 8
   yes; Identity Property

5. $x \cdot 1$ and $1 \cdot x$
   yes; Commutative Property

6. $10 \div 5$ and $5 \div 10$
   no; the expressions equal 2 and $\frac{1}{2}$.

Use one or more properties to rewrite each expression as an expression that does not use parentheses.

7. $(b + 3) + 6$ **$b + 9$**

8. $7 + (3 + t)$ **$10 + t$**

9. $9 \cdot (k \cdot 5)$ **$k \cdot 45$**

10. $1 + (h + 2)$ **$3 + h$**

11. **GROCERY** A grocery store sells an imported specialty cheese for $11 and its own store-brand cheese for $5. Write two equivalent expressions for buying one of each cheese and an unknown amount of other groceries.
    Sample answer: $(11 + g) + 5$ and $11 + (g + 5)$
    $11 + 5 + g$ and $11 + g + 5$

12. **CHECKING ACCOUNT** Mr. Kenrick made three deposits to his account in this order: $460, $185, and $240. Show how to use the Commutative Property to find the sum of the deposits mentally.
    Sample answer: $460 + $185 + $240 = $460 + $240 + $185 = $885

13. **PETS** Luzon has 8 fish, 3 cats, and 2 dogs. Write two equivalent expressions using the Associative Property that can be used to find the total number of pets.   **Sample answer: $(8 + 3) + 2$ and $8 + (3 + 2)$**

Lesson 5 Extra Practice

Algebra: Properties

Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

1. $7 \cdot (3 \cdot 2)$ and $(7 \cdot 3) \cdot 2$

   yes; associative

2. $16 \div 8$ and $8 \div 16$

   no; commutative property does not work for division

3. $27 \cdot 1$ and 1

   no; this is not the identity property

4. $16 + 0$ and 16

   yes; identity

5. $12 - (5 - 2)$ and $(12 - 5) - 2$

   no; associative property does not work for subtraction

6. 14 and $1 \cdot 14$

   yes; identity

7. $32 + 4$ and $4 + 32$

   yes; commutative

8. $40 \div (8 \div 2)$ and $(40 \div 8) \div 2$

   no; associative property does not work for division

Let's finish the video notes from yesterday together:

Lesson 6 Skills Practice

The Distributive Property

Find each product mentally. Show the steps you used.

1. 3×78

$3(70 + 8)$
$3 \cdot 70 + 3 \cdot 8$
$210 + 24$
234

2. 7×74

3. 8×92

4. 6×57

5. $15 \times 2\frac{2}{3}$

$15(2 + \frac{2}{3})$
$(15 \cdot 2) + (\frac{15}{1} \cdot \frac{2}{3})$
$30 + 10 = 40$

6. $12 \times 5\frac{1}{6}$

$12(5 + \frac{1}{6})$
$12 \cdot 5 + \frac{12}{1} \cdot \frac{1}{6}$
$60 + 2 = 62$

7. 6×5.2

$6(5 + 0.2)$
$(6 \cdot 5) + (6 \cdot 0.2)$
$30 + 1.2 = 31.2$

8. 4×9.4

$4(9 + 0.4)$
$4 \cdot 9 + 4 \cdot 0.4$
$36 + 1.6$
37.6

Use the Distributive Property to rewrite each algebraic expression.

9. $7(y + 2)$

10. $(8 + r)4$

11. $8(x + 9)$

12. $(b + 5)12$

13. $4(2 + a)$

14. $7(6 + v)$

$7 \cdot 6 + 7 \cdot v$
$42 + 7v$

15. $(b - 5)15$

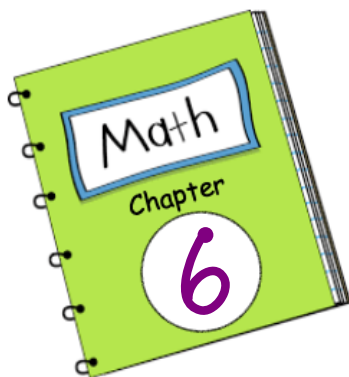$15 \cdot b - 15 \cdot 5$
$15b - 75$

16. $3(5 - v)$

$3 \cdot 5 - 3 \cdot v$
$15 - 3v$

17. $6(11 - s)$

$6 \cdot 11 - 6 \cdot s$
$66 - 6s$

Math
Chapter
6

TITLE: Expressions

Date	Lesson	Topic/Assignment
2/17	1	Powers and Exponents Video Notes
2/19	1	HOMEWORK: Pg437 WS
2/22	2	Order of Operations Video Notes
2/23	2	HOMEWORK: Pg445 WS
2/23	2	CLASSWORK: Pg447 WS
2/26	3	Variables and Expressions Video Notes
3/2	3	CLASSWORK: Pg453 WS
3/3	3	HOMEWORK: Skills Practice WS
3/4	4	Writing Expressions Video Notes
3/5	4	Pg464 Examples
3/5	4	Skills and HW Practice WS
3/9	5	Properties In-Class Notes
3/9	5	CLASSWORK: Reteach WS
3/10	5	HOMEWORK: Skills Practice WS
3/10	5	CLASSWORK: Homework and Extra Practice WS
3/11	6	Distributive Property Video Notes
3/12	6	HOMEWORK: Pg488 WS

Welcome to our class

IN THIS CLASSROOM
WE DON'T
give up,
BUT WE DO
give our
best effort

HARD
WORK
PAYS
OFF

WELCOME

6th Grade
Homework

Pg 488 WS

ALEKS

Name_____Date_____Lesson_____

Page488 #1-4, pg489 #1-7, pg491 #20-26

1. Find $9 \times 8\frac{2}{3}$ mentally. Show the steps you used. (Example 1) _____

Use the Distributive Property to rewrite each algebraic expression. (Example 2)

2. $3(x + 1) =$ _____

3. $5(x + 8) =$ _____

4. $4(x + 6) =$ _____

Show your work.

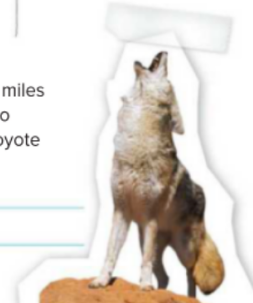**Find each product mentally. Show the steps you used.** (Example 1)

1. $9 \times 44 =$

2. $4 \times 5\frac{1}{8} =$

3 $7 \times 3.8 =$

_____   _____   _____

Show your work.

Use the Distributive Property to rewrite each algebraic expression. (Example 2)

4. $8(x + 7) =$ _____

5. $6(11 + x) =$ _____

6. $8(x + 1) =$ _____

7 **MP** **Identify Repeated Reasoning** A coyote can run up to 43 miles per hour while a rabbit can run up to 35 miles per hour. Write two equivalent expressions and then find how many more miles a coyote can run in six hours than a rabbit at these rates. (Example 3)

_____

_____

Find each product mentally. Show the steps you used.

19. $4 \times 38 =$ 152

20. $11 \times 27 =$ _____

21. $3 \times 3.9 =$ _____

Homework Help

$4(30) + 4(8)$
$= 120 + 32$
$= 152$

Use the Distributive Property to rewrite each algebraic expression.

22. $4(x + 2) =$ _____

23. $3(x + 7) =$ _____

24. $5(2x + 7) =$ _____

25. **MP** **Be Precise** Mrs. Singh bought 9 folders and 9 notebooks. The cost of each folder was $2.50. Each notebook cost $4. Write two equivalent expressions and then find the total cost.

_____

26. **MP** **Be Precise** Five friends bought admission tickets to the museum and a box lunch. The cost of each admission ticket was $11.75. Each box lunch cost $5. Write two equivalent expressions and then find the total cost.

_____