
First and Last Name

Units
1-2



MATH

Name: _____ Score: _____ out of 70

Folder Check Algebra Unit # 1

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Worksheet Policy

- 0 All Questions Done
- 1 More than Half Done
- 2 Only Groupwork Q's
- 3 Less than Half Done
- 4 Blank/Absent

Notes Policy

- 0 All boxes filled
- 1 One Empty Box
- 2 Two Empty Boxes
- 3 Less than Half Done
- 4 Blank/Absent

**This page
on top.**

Name _____

Lesson 1.1 Worksheet

A1 Simplify the expression:

$$9m + m - 7m$$
$$3m$$

A2 Simplify the expression:

$$9z + 10z$$
$$19z$$

A3 Simplify the expression:

$$5w + 8w - 2w$$

A4 Simplify the expression:

$$10q + 2q$$

A5 Simplify the expression:

$$6n - 4n + n$$

A6 Simplify the expression:

$$5x + 2x - x$$

A7 Simplify the expression:

$$7y - 5y + 4y$$

A8 Simplify the expression:

$$11a + 2a - 7a$$

A9 Simplify the expression:

$$15b - 8b$$

A10 Simplify the expression:

$$h - 4h + 10h$$

A11 Simplify the expression:

$$7t - 2t - 3t$$

A12 Simplify the expression:

$$14d + 5d$$

A13 Simplify the expression:

$$7w + 8w$$

A14 Simplify the expression:

$$17e - 9e + e$$

A15 Simplify the expression:

$$3d + 4d - 2d$$

A16 Simplify the expression:

$$21z - 6z$$

A17 Simplify the expression:

$$35v + 10v - 5v$$

A18 Simplify the expression:

$$4b + 2b - b$$

A19 Simplify the expression:

$$19m - 12m$$

A21 Simplify the expression:

$$c + 7c - 4c$$

page number
- | -

Name: _____

Unit # 1 Lesson # 1

Activator and Video

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

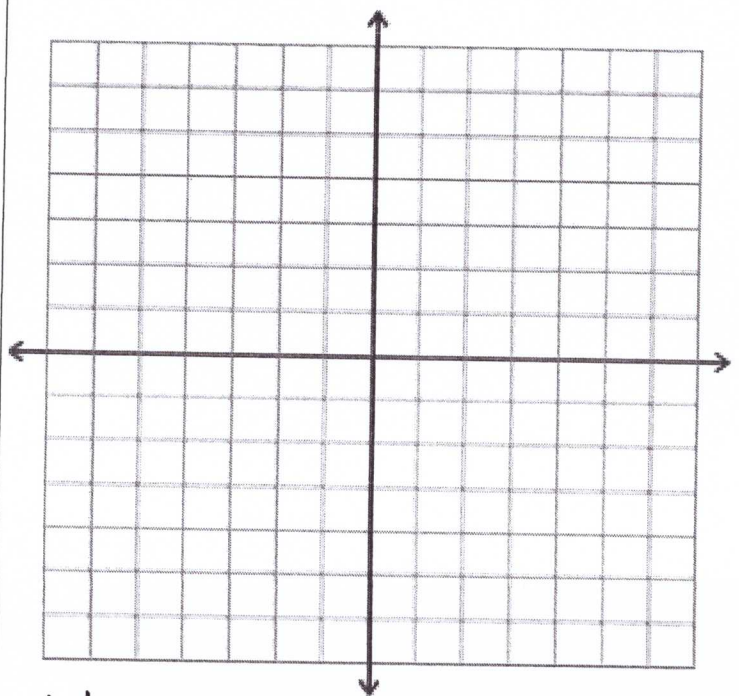
Unit # 1 Lesson # 1

Misconception (4 of 4)

Work Period

Exit Ticket

Extra Graph Paper



Name _____

Lesson 1.2 WORK SHEET

B1 Simplify the expression:
 $4a + 2b - 5a + b$

B2 Simplify the expression:
 $4x + z - x + 4z$

B3 Simplify the expression:
 $6m + m + 4n + n - n$

B4 Simplify the expression:
 $-5d + 3c - 4d$

B5 Simplify the expression:
 $7c + 2d - c + 4d$

B6 Simplify the expression:
 $a + b + 2b + a + 3b$

B7 Simplify the expression:
 $6f - 3g - g + 5f - g$

B8 Simplify the expression:
 $6x - x + 4y + 2x - y$

B9 Simplify the expression:
 $7t + 6u + 10t - u$

B10 Simplify the expression:
 $t - 7t + 1 + 4t$

B11 Simplify the expression:
 $y + 11z - y + 13z$

B12 Simplify the expression:
 $-7a - 8 + 2a + 10$

B13 Simplify the expression:
 $7d - 3 + 2d + c + 5$

B14 Simplify the expression:
 $7w + 6 - 4 + 2w - w$

B15 Simplify the expression:
 $6 + f - 3 - f$

B16 Simplify the expression:
 $11k - 9 + 2k - 3$

B17 Simplify the expression:
 $6h + 7j - 3h + 5j$

B18 Simplify the expression:
 $3m - n + 4m + 2m$

B19 Simplify the expression:
 $3x - y + 2x - 2y$

page number
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B21 Simplify the expression:
 $8a - b + a + 4a - b$

Name: _____

Unit #

1

Lesson #

2

Activator and Video

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

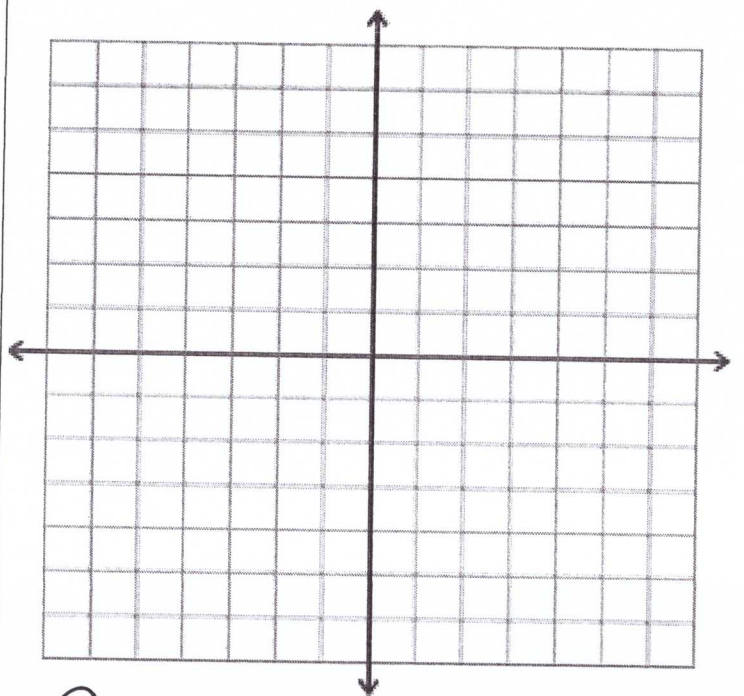
Unit # 1 Lesson # 2

Misconception (4 of 4)

Work Period

Exit Ticket

Extra Graph Paper



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Name: _____

Distributive Property Practice

Lesson 1.3

DIRECTIONS: Using the Distributive Property of Multiplication, expand the given expression, correctly.

1.	$8(2x)$	$16x$ answer
2.	$-4(-8)$	32 answer
3.	$3(8x)$	$24x$ answer
4.	$7(-u)$	$-7u$ answer
5.	$4(x)$	
6.	$-6(-8)$	
7.	$3(5x)$	
8.	$-9(-1)$	
9.	$-5(-x)$	
10.	$-8(-1r)$	
11.	$9(m)$	
12.	$-3(9)$	
13.	$2(20h)$	
14.	$-5(-8)$	
15.	$3(x)$	
16.	$-13(-1)$	
17.	$3(3w)$	
18.	$-8(-7)$	
19.	$9(-t)$	
20.	$-8(8)$	
21.	$4(y)$	
22.	$-9(-2)$	

23.	$-3(q)$	
24.	$-4(-1)$	
25.	$3(5x)$	
26.	$-4(-2)$	
27.	$4(3x)$	
28.	$-8(-8)$	
29.	$2(3h)$	
30.	$-4(h)$	
31.	$5(-3x)$	
32.	$-8(5x)$	
33.	$3(b)$	
34.	$-4(-5s)$	
35.	$5(11x)$	
36.	$-4(-1)$	
37.	$9(2x)$	
38.	$-15(-2g)$	
39.	$8(4j)$	
40.	$-9(-3)$	
41.	$9(-t)$	
42.	$-8(-4r)$	
43.	$3(-2y)$	
44.	$-4(3)$	

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Name: _____

Unit # 1 Lesson # 3

Activator and Video

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

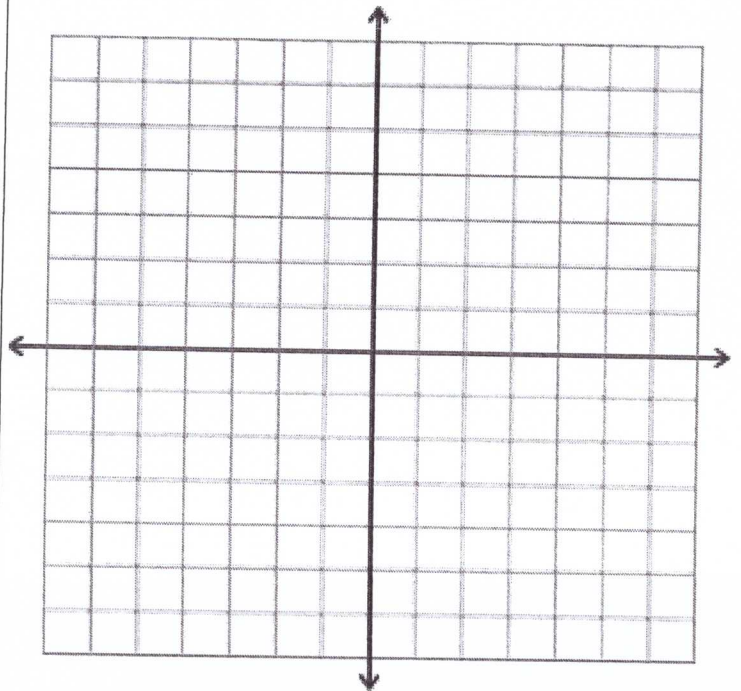
Unit # 1 Lesson # 3

Misconception (4 of 4)

Work Period

Exit Ticket

Extra Graph Paper



Name: _____

Distributive Property Practice

Lesson 1.4

DIRECTIONS: Using the Distributive Property of Multiplication, expand the given expression, correctly.

1.	$3(x - 8)$	$3x - 24$
2.	$-4(-8 + z)$	$32 - 4z$
3.	$2(3x - 1)$	$6x - 2$
4.	$-2(-x + y)$	$2x - 2y$
5.	$4(x - 2)$	
6.	$-6(-3 + u)$	
7.	$5(5x + 5)$	
8.	$-6(-1 + 2p)$	
9.	$5(-x - 6)$	
10.	$-3(-6x + 7)$	
11.	$8(r - 9d)$	
12.	$-6(9 + 2z)$	
13.	$4(10x - 2)$	
14.	$-5(-6 - 5d)$	
15.	$3(x - 1)$	
16.	$-12(-4 - 5z)$	
17.	$2(2w - 5)$	
18.	$-8(-8 + 8g)$	
19.	$9(-x + 4a)$	
20.	$-7(8 + 2u)$	
21.	$4(3y - 2)$	
22.	$-9(-6 + 2z)$	

23.	$-9(t - 1)$	
24.	$-3(-2 - 4m)$	
25.	$2(6x - 2)$	
26.	$-4(-3 + 7g)$	
27.	$4(3x - 1)$	
28.	$-3(-3 + t)$	
29.	$6(2h + 1)$	
30.	$-6(h + d)$	
31.	$5(-2x + y)$	
32.	$-8(3x + 2)$	
33.	$9(b - 1)$	
34.	$-3(-5s + 2i)$	
35.	$5(11x - 5)$	
36.	$-4(-2 - 7d)$	
37.	$9(x + 6)$	
38.	$-15(-2a + p)$	
39.	$3(7j - 1)$	
40.	$-9(-2 + 7k)$	
41.	$9(-2x - 8)$	
42.	$-3(-4r + 7s)$	
43.	$2(-7y - 8)$	
44.	$-4(4 + 6a)$	

Name: _____

Unit #

1

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4

Activator

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

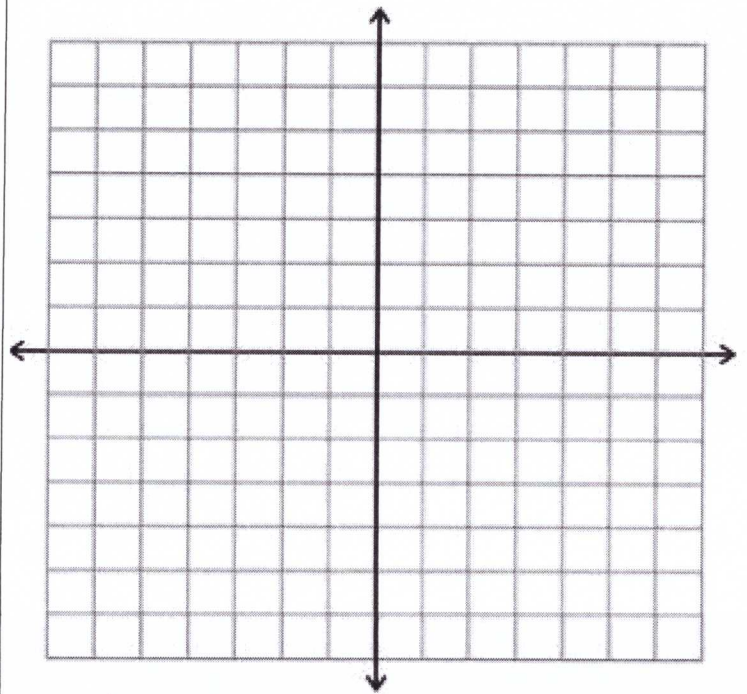
Unit # 1 Lesson # 4

Misconception (4 of 4)

Work Period

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Name: _____

Lesson 1.5

The Substitution Property

Use $x = 2$, $y = 3$, $z = 4$.

Show the new problem after replacing each variable with the correct number, under each problem, then solve the equation.

Matching:

C 1. $x + 7$

A. $12 + (4)$

____ 2. $y + 21$

B. $22 \div (2)$

____ 3. $12 + z$

C. $(2) + 7$

____ 4. xy

D. $2(2) + 3$

____ 5. $2x + y$

E. $(3) + 21$

____ 6. $22 \div x$

F. $(2)(3)$

Always remember
_____ when you
substitute.

Write the answer when $x = 2$, $y = 3$, $z = 4$

7. $15y$

$15(3)$

45

12. xz

$(2)(4)$

8

17. $y + 23$

9. $y + 12$

14. $2z + 7$

19. $9x + y$

11. $5z + y$

16. $12 \div z$

21. $14 - yz$

Lesson 1.5

Use $a = 5$, $b = 6$, $c = 7$.

Write the new problem under the existing one, then solve.

22. $5a$

33. $20 - 4a$

44. $b + 3$

$$20 - 4(5)$$

$$(6) + 3$$

$$20 - 20$$

$$6 + 3$$

$$0$$

$$9$$

24. $ab + 2$

35. $2c + 7$

46. $bc + a$

$$2(7) + 7$$

$$14 + 7$$

$$21$$

26. $5c + a$

37. $30 \div b$

48. $5c - b$

28. $50 - ab$

39. $3a + 2c$

50. $6a - 2b$

30. $4b + c$

41. $ac + 23$

52. $ab - c$

32. $14 \div c$

43. $7a + 3b$

54. $ac + b$

Name: _____

Unit # 1 Lesson # 5

Activator

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

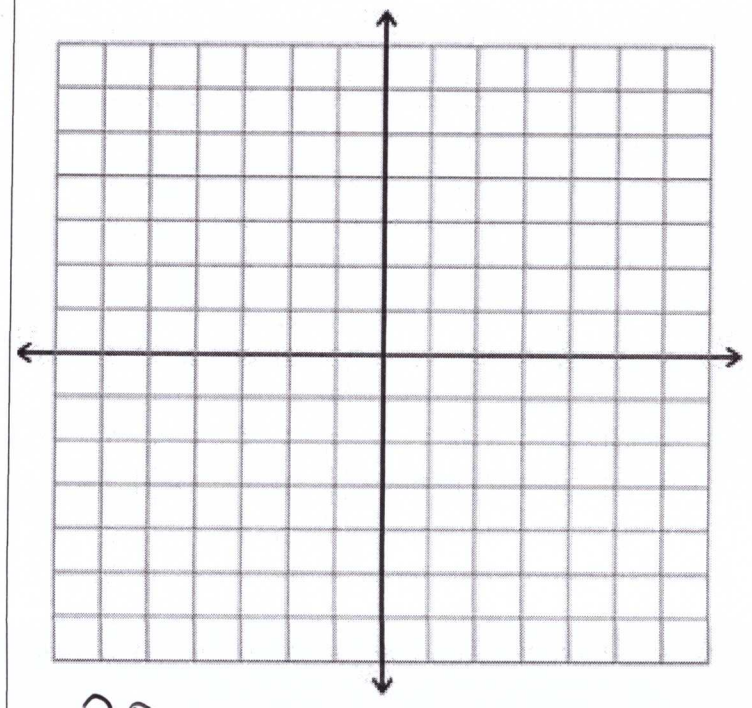
Unit # 1 Lesson # 5

Misconception (4 of 4)

Work Period

Exit Ticket

Extra Graph Paper



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Name: _____ Date: Lesson 1.6

Circle the Commutative Property

1. $2 \times (3 \times 5) = (2 \times 3) \times 5$

$5 \times 7 = 7 \times 5$

2. $9 + 11 = 11 + 9$

$13 - 4 = 4 - 13$

3. $72 \times 1 = 1 \times 72$

$9 + (5 + 2) = (9 + 5) + 2$

4. $2 \times (1 + 3) = (2 \times 1) + (2 \times 3)$

$5 + 3 = 3 + 5$

5. $3 \times 14 = 14 \times 3$

$12 \div 2 = 2 \div 12$

Find the value for n that makes the statement true.

6. $8 + n = 3 + 8$

$n = \underline{3}$

7. $12 \times 2 = n \times 12$

$n = \underline{\hspace{2cm}}$

8. $6 + 18 = 18 + n$

$n = \underline{\hspace{2cm}}$

9. $n + 35 = 35 + 0$

$n = \underline{\hspace{2cm}}$

10. $5 \times n = 3 \times 5$

$n = \underline{\hspace{2cm}}$

The commutative property changes the .

Use the commutative to fill in the blanks in each equation.

$$11. 21 + (\underline{8} + 3) = (8 + 3) + \underline{21}$$

$$12. 2 + \underline{\quad} + 10 + 11 = 11 + \underline{\quad} + 9 + 2$$

$$13. \underline{\quad} (10 + 2) = (10 + 2)(\underline{\quad})$$

$$14. \underline{\quad} + y = \underline{\quad} + x$$

$$15. (15)(\underline{\quad})(4) = (\underline{\quad})(15)(2)$$

$$16. \underline{\quad}(8) = 7(\underline{\quad})$$

$$17. ab(\underline{\quad}) = bc(\underline{\quad})$$

$$18. 6 + 3 + \underline{\quad} = 8 + \underline{\quad} + 3$$

$$19. 5 + (\underline{\quad} + 19) = (22 + 19) + \underline{\quad}$$

$$20. 20(\underline{\quad}) = 10(\underline{\quad})$$

$$21. \underline{\quad} + 7 = \underline{\quad} + 45$$

The commutative property changes the order.

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Name: _____

Unit # 1 Lesson # 6

Activator

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

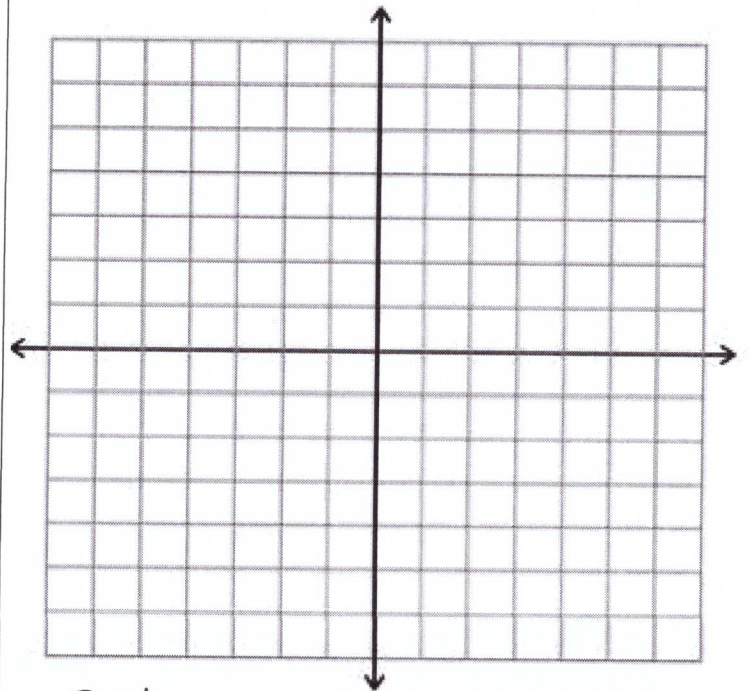
Unit # 1 Lesson # 6

Misconception (4 of 4)

Work Period

Exit Ticket

Extra Graph Paper



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Name: _____ Date: _____ Lesson 1.7

Simplifying Expressions:

Justifying Steps with Number Properties

Evaluate each expression. Name the property used in each step.
Show all work in the boxes provided.

1. $3t - 4(t - 8)$
 $3t - 4t + 32$
 $-1t + 32$

distributive property
combine like terms (CLT)

2. $2 + y\left(\frac{1}{y}\right)$

3. $36trs - 36trs$

4. $4 + 6(8 - 3n)$

5. $5r + 6 + 3(r + 2)$

6. $2(2s - 1) + 2$

1.7

7. $4[e - 2(2e + 3)]$

8. $2(7 - c) - 3c$

9. $-12k + 45 - 7k$

10. $2(25g - 5) - 100g$

In a complete sentence, name one thing you have learned about justifying steps with number properties?

#1/10

Name: _____

Unit # 1 Lesson # 7

Activator and Video

New Vocabulary (1 of 4)

New Vocabulary (2 of 4)

New Vocabulary (3 of 4)

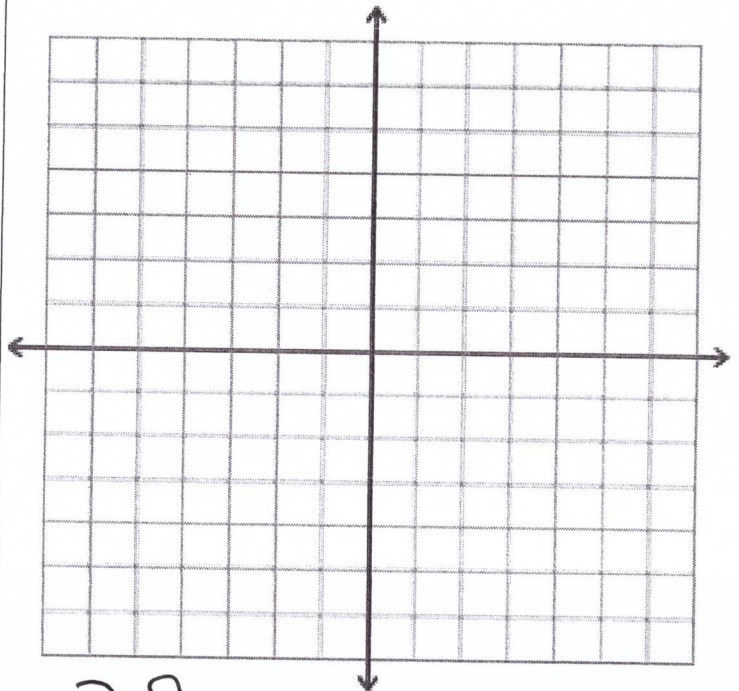
Unit # 1 Lesson # 7

Misconception (4 of 4)

Work Period

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Extra Graph Paper



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Name: _____

UNIT #1 Study Guide
COMMON CORE ALGEBRA I

Study Guide

PART I QUESTIONS: Answer all questions in this part. **Make sure you show all of your work.**

1. Which of the following is equivalent to $4(6x + 7)$

2. Which of the following is the value of the expression $\frac{-3+x}{4}$ when $x = -9$

3. If the expression $2+5x$ is equal to 42 for some value of x . Does $x = 8$?

4. Is binomial $-7+2x$ equivalent $2x-7$?

5. Fill in the blank $3x + x + \underline{\quad} = 9x$

6. The sum of $6-x$ and $4x-1$ is

7. Which of the following equations illustrates the distributive property and commutative property?

$$-2(x) = -2x$$

$$-2 + x = x - 2$$

8. Which of the following is $3(-6x)$

9. The expression $2(x) + 5x + 3$ is equivalent to each of the following

10. When written in simplest form the expression $4(-6x + 7) + 3(8 - x)$

Name: _____

PART II QUESTIONS: Answer all questions in this part. **Make sure you show all of your work.**

11. Find the *Sum* of $-2x$ with $8x$ in simplest form.

12. If n represents a number, *simplify the expression.* $-4(n-5)$

13. Which of the following is equivalent to the expression $\frac{8+x}{2}$ when $x = -4$

PART III QUESTIONS: Answer all questions in this part. **Make sure you show all of your work.**

14. Which of the following properties justifies the equivalence:

Define the answer.

$$3+n = n+3 \quad \text{and} \quad 6(x) = 6x$$

If

15. $4x-7=-5$ for some value of x , is it true when $x = -3$? *Show substitution.*

____, x does ____ equal -3
b/c the last equation is

- 31 - Not ____.

16. Of the following, which are equivalent?

$$7 - n = n - 7 \quad \text{OR} \quad 3(x + 4) = 3x + 12$$

17. Combine like terms for the expression $-3x - 5x + 7$

PART IV QUESTION: Answer the question in this part. *Show your work.*

18. What is following step to simplify the expression?

Expression $-3(4x - 1) + 7(5x - 2)$

Step #1 $-12x + 3 + 35x - 14$

19. Simplify the problem above.