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Name _____

Reteaching
1-11**Writing Equivalent Expressions**

You can use the properties of operations to write equivalent expressions. Two algebraic expressions are equivalent if they have the same value when any number is substituted for the variable.

How can you use the properties of operations to write an equivalent expression for the expression below?

$$2(5x + 7)$$

Use the Distributive Property to expand the expression. Then use Associative Property of Multiplication to regroup the first term and multiply 2×5 .

$$\begin{aligned} 2(5x + 7) &= 2(5x) + 2(7) \\ &= (2 \times 5)x + 14 \\ &= 10x + 14 \end{aligned}$$

How can you use the Distributive Property in reverse order to write an equivalent expression for the expression below?

$$9x + 3$$

Look for a common factor of both terms that is greater than 1. In this expression, the common factor is 3.

$$\begin{aligned} 3x + 3 &= 3(3x) + 3(1) \\ &= 3(3x + 1) \end{aligned}$$

Use the Distributive Property to write an equivalent expression by filling in the missing numbers.

$$\begin{array}{ll} 1. 4(x - 2) = \underline{\quad}x - \underline{\quad} & 2. 15x - 5 = 5(\underline{\quad}x - \underline{\quad}) \\ 3. 3(6x + 1) = \underline{\quad}x + \underline{\quad} & 4. 21x + 6 = 3(\underline{\quad}x + \underline{\quad}) \end{array}$$

Find the missing number(s) so that the expressions are equivalent.

$$\begin{array}{ll} 5. 2(4x + 6) \text{ and } \underline{\quad}x + 12 & 6. 16x - 14 \text{ and } \underline{\quad}(8x - \underline{\quad}) \\ 7. 3(8x - 5) \text{ and } \underline{\quad}x - 15 & 8. 10x + 25 \text{ and } 5(\underline{\quad}x + \underline{\quad}) \end{array}$$

Use the Distributive Property to write an equivalent expression.

$$\begin{array}{ll} 9. 3(2x - 1) & 10. 10x - 5 \\ 11. 7(3x + 4) & 12. 22x - 8 \end{array}$$

- 13. Reasoning** Jun writes the expression $5(x + 2)$. Then he uses the Distributive Property to write the equivalent expression $5x + 10$. How can he substitute a value for the variable to check to see if expressions are equivalent?

R1-11

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Name _____ Date _____

Linear Equations Worksheet

1a. $-3 = 7p - 5$	1b. $\frac{-5-x}{2} = 1$
2a. $7 = \frac{w-(-7)}{5}$	2b. $-1 = 4z + 8$
3a. $2 = 3-2t$	3b. $9 = \frac{s-1}{-5}$

RD Sharma Solutions for Class 7 Maths Chapter 7
Algebraic Expressions

EXERCISE 7.1

PAGE NO: 7.7

- 1. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:**

- (i) a^2
- (ii) $a^2 - b^2$
- (iii) $x^3 + y^3 + z^3$
- (iv) $x^3 + y^3 + z^3 + 3xyz$
- (v) $7 + 5$
- (vi) $a b c + 1$
- (vii) $3x - 2 + 5$
- (viii) $2x - 3y + 4$
- (ix) $x y + y z + z x$
- (x) $a x^3 + b x^2 + c x + d$

Solution:

- (i) Given a^2
 a^2 is a monomial expression because it contains only one term

- (ii) Given $a^2 - b^2$
 $a^2 - b^2$ is a binomial expression because it contains two terms

- (iii) Given $x^3 + y^3 + z^3$
 $x^3 + y^3 + z^3$ is a trinomial because it contains three terms

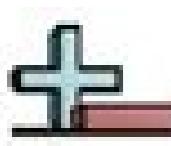
- (iv) Given $x^3 + y^3 + z^3 + 3xyz$
 $x^3 + y^3 + z^3 + 3xyz$ is a quadrinomial expression because it contains four terms

- (v) Given $7 + 5$
 $7 + 5$ is a monomial expression because it contains only one term

- (vi) Given $a b c + 1$
 $a b c + 1$ is a binomial expression because it contains two terms

- (vii) Given $3x - 2 + 5$
 $3x - 2 + 5$ is a binomial expression because it contains two terms

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Using Substitutions to Solve Problems.

Name:

Determine which option(s) the variable 'e' could be. If none of the options could be the variable write 'none'.

Ex) $10e + 3 < 92$

1) $9 + e > 3$

2) $e + 10 < 105$

A. 10

A. 10

A. 3

B. 4

B. 8

B. 8

C. 6

C. 9

C. 2

D. 2

D. 7

D. 1

3) $3 + 8e < 53$

4) $5 + e < 16$

5) $7 + 3e > 25$

A. 8

A. 5

A. 6

B. 3

B. 2

B. 1

C. 5

C. 5

C. 7

D. 3

D. 3

D. 7

6) $e + 3 > 14$

7) $5e - 7 > 26$

8) $59 < 8e - 9$

A. 8

A. 6

A. 4

B. 10

B. 7

B. 5

C. 5

C. 8

C. 7

D. 4

D. 5

D. 6

9) $9e + 5 > 48$

10) $13 < 5e - 2$

11) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

Answers

Ex. B,C,D

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

1-10	91	82	73	64	55	45	36	27	18	9
11	0									

Math

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1

10) $13 < 5e - 2$

11) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

9) $9e + 5 > 48$

10) $13 < 5e - 2$

11) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

10) $13 < 5e - 2$

11) $e + 8 > 59$

12) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

11) $e + 8 > 59$

12) $e + 8 > 59$

13) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

12) $e + 8 > 59$

13) $e + 8 > 59$

14) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

13) $e + 8 > 59$

14) $e + 8 > 59$

15) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

14) $e + 8 > 59$

15) $e + 8 > 59$

16) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

15) $e + 8 > 59$

16) $e + 8 > 59$

17) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

D. 3

D. 10

D. 9

16) $e + 8 > 59$

17) $e + 8 > 59$

18) $e + 8 > 59$

A. 8

A. 4

A. 7

B. 3

B. 2

B. 4

C. 1

C. 4

C. 5

practice to convert regular measurement units. This is foldable is visual, organized and complete, which makes it the perfect reference for students to refer over and over! _____ mathematical tracks: mystery of the missing pet! Simplifying expressions using distribution properties and similar terms! This fun mystery resolution game is a success in every classroom and perfect review! Students are separated into small groups that simplify the expressions of cards (10-15 per student depending on the size of the group). Each unit within this package comes with lesson plans, differentiated activities of math groups, math writing activities, interactive notebook activities, worksheets, assessment of page 5 of algebraic expressions Package error analysis, word troubleshooting task cards, problem solving graphic organizers, resource package of the Puzzles this unit includes 40 tasks. Cards, 10 error analysis activities, 10 problem resolution graphic organizers, 1 maze worksheet, 1 puzzle worksheet, 1 coloring page activity (more than 90 skills covered grade 5). Find fifth grade stations by the standard Herethis work station set has 15 algebraic reasoning centers or seasons for fifth grade students. Covered algebraic reasoning concepts: $\hat{a} \in C$ Classify the numbers as Prime or Composite 'Find all the factors of a number and supply one of one'-Pass of algebraic equations practice and real world word problems). Included y y roloc yah :atneus ne agnet 'trolav au ne odneyutus senoixpexe sus raualte euq nArdnet setnadiutes sol ednod adarapes ojabart ed ejoh anu yah ,senoixpexe sus utrice nayah setnadiute sol euq ed s@AupseD satstianif soremipg sol arap rasu edeup euq nAicacifnob ed ojabart ed ejoh anu yah ,adeuqgAb ed ortemArep le neyubitsid euq seralimis sommr@At sol ranibmoc idadivita atse recah ed setna etneiguis of noc sodaziraimaf ratse nebed setnadiute sol ,elbimirpmi e latigid se osrucer etsE And the folding activities of Interactive Notebook of White Optheese 15 Fun Fun Math are excited to their students about the third-grade common basic standards for operations and algebraic operations. Each folding represents a setting in this category and allows critical and creative thinking and the application of knowledge. You can choose the size of the clock image. You will receive the link to Google slides to assign on Google Classroom. The alignment activity of the rigorous and common number was carefully CRPage 20 students will practice: 1) Solve equations of one step (sum, subtraction, multiplication, division), 2) Solve two -step equations (in addition, subtraction, multiplication, division) and 3) Solve equations of multiple steps with these colored and labyrinth activities. You can choose the type of bingo to play with your class! Tambia @ n includes a blank bingo card that students are completed. Your students will be entertained and challenged as they practice concepts that learn during this unit. Ideas for Christmas, January, February, winter activity, Types, Pagina 24 This bundle includes resources that address two common basic standards (4.OA.4 and 4.OA.5). Students will be to organize their responses strips until they obtain a code at the end of the task. Key included. Do not forget to obtain a crop for free products at your local community! Take a free paper chain here! Try free sample and check out my other packages for more steps of multiplication in a row, a series PropertiesKeteball Slopeupper Periods, designed for students with these features: five-degree measurement mode with mathematical instruments, sheets aligned with fractions and decimals of algebraic expressions, students will have to teach and review writing algebraic expressions, evaluating algebraic expressions, and simplifying algebraic expressions using the Distributive Property and by combining like terms with this comprehensive bundle! The 8 resources in this bundle can be purchased separately in my store, as well, but this bundle saves you over 30% over buying each product individually. This bundle includes the following:- 4 Sets of Notes, Practice, & Application Practice Packs (3 student pages each + answer keys) This resource contains three printables for each standard in the Operations and Algebraic domain of the 4th grade Common Core standards. You can learn more about these standards here. All of the worksheets come with an answer key on the 2nd page of the file. Each card has a question on the front and the answer on the back. Is it enough to get by? Students will check themselves. You are here: Home AAA Worksheets Here you can generate printable math worksheets for a multitude of topics: all the basic operations, clock, money, measuring, fractions, decimals, percent, proportions, ratios, factoring, equations, expressions, geometry, square roots, and more. The students start off with Task #1 (Room 1). Contains actual advertisements and graphs published by newspapers and magazines, including ads published to lure companies to establish factories in certain countries. 24 input/output tables in total. It's quick and easy to implement and a great review of skills. skills.

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