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Name \_\_\_\_\_

## Dividing Rational Expressions

**Simplify each expression.**

$$1) \frac{10\pi}{9} \div \frac{13\pi^2}{16}$$

$$2) \frac{16\pi}{17} \div \frac{8\pi}{6}$$

$$3) \frac{2}{7} \div \frac{18}{8x^2}$$

$$4) \frac{12}{7} \div \frac{4}{11r}$$

$$5) \frac{7}{18} + \frac{6}{9a}$$

6)  $\frac{5}{20} \div \frac{5x}{3}$

7)  $\frac{4n}{n-6} \div \frac{4n}{8n-48}$

8)  $\frac{3}{28b} + \frac{3}{b+1}$

9)  $\frac{7a^2}{7a^3 + 56a^2} \div \frac{2}{a^2 + 7a - 8}$

10)  $\frac{6}{28x+4} \div \frac{6}{35x+5}$

11)  $\frac{x^2 + 10x + 16}{x^2 + 6x + 8} \div \frac{1}{x + 4}$

$$12) \frac{49x + 21}{6x} \div \frac{42x + 18}{6}$$

1. Simplify :  
(a)  $2x - (5y - (x - 2y))$   
(b)  $5a - \{3a - (2 - a) + 4\}$
2. Pallavi spends ₹ x daily and saves ₹ y per day. What is her income after 3 weeks?
3. If  $P = -10$ , find the value of  $P^2 - 2P - 100$ .
4. If  $a + b = 6$ , then find the value of  $\frac{1}{2}a + \frac{1}{2}b$ .
5. From the sum of  $3x - y + 11$  and  $-y - 11$ , subtract  $3x - y - 11$ .
6. Write down the numerical coefficient in each of the following terms.  
(i)  $xy$  (ii)  $-3xy$  (iii)  $2p^2$  (iv)  $-5abc$
7. Simplify the expression and find its value when  $a = 5$  and  $b = -3$ .  $2(a + ab) + 3 - ab$
8. Add  $4x^2y$ ,  $8x^2y$  and  $-2x^2y$ .
9. Solve and verify your answer.  
 $\frac{2}{21}x + 8 = x + 6$
10. What should be added to  $a^2 + ab + b^2$  to obtain  $4ab + b^2$ ?
11. The length of a rectangular field is 6m less than three times its breadth. Find the dimensions of the rectangle if its perimeter is 148 m.
12. Collect like terms and simplify the expression :  
 $12m^2 - 9m + 5m - 4m^2 - 7m + 10$
13. What should be subtracted from  $a^2 - 4a^2 + 5a - 6$  to obtain  $a^2 - 2a + 1$ ?
14. In an isosceles triangle, the base angles are equal, the vertex angle is twice either the base angle. What are the degree measures of the angles of triangle?
15. A bag contains 25 paise and 50 paise coins whose total values is ₹ 30. If the total number of 25 paise coins is four times that of 50 paise coins, find the number of each type of coins.

### Use the Distributive Property to Combine Like Terms

**Abstract:**

### Simplify the Expressions

W. J. G. M. Meijer, M.D.

$$1.) -(x-8) + 7(4+3x)$$

$$2.) -4n(-2n-3) - 2n(1+2n)$$

3.)  $5(5x+7) + 3(x+3)$

4.)  $3(n-2) - 8n(5n-2)$

5.)  $2x(3x-3) + 7(1+6x)$

6.)  $-(8n-5) + 3n(n-7)$

$$7.) \quad 6(6x + 5) + 8x(x - 5)$$

8.)  $-2(7n+3) + 7(n+1)$

9.)  $7x(-8x+1)+4(-2x-3)$

10.)  $-3(x+8) + 2x(-4x+3)$

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hour: \_\_\_\_\_

Matching Algebraic Expressions

Follow the directions in the top 9 spaces. Show your work on this sheet or another sheet of paper.

★ Draw a star next to expressions equivalent to this:  $6x + 10 - 5x$	ⓐ Draw a smiley face next to expressions equivalent to this:  $6x - 3 + 8 - 4x$	Ⓒ Draw a moon next to expressions equivalent to this:  $3 - 2x + 10x + 5 + 9x$
Ⓜ Draw a box with an "x" next to expressions equivalent to this:  $10 - 7x + 2 + 10x$	■ Draw a black dot next to expressions equivalent to this:  $10x + 7 - 7x$	■ Draw a black square next to expressions equivalent to this:  $7x - 8x + 8 + 2x$
▲ Draw an "x" next to expressions equivalent to this:  $7 - 4x + 4x + 8 + 3x$	▲ Draw a black triangle next to expressions equivalent to this:  $8 - 5x + 10x + 2 + 10x$	➦ Draw an up arrow next to expressions equivalent to this:  $5x - 7x + 7 + 3x$
$10x - 3 + 11 + 7x$	$2x + 5$	$4x + 4 - x + 9 - 1$
$10x + 5 - 9x + 4$	$17x + 8$	$3x + 15$
$x + 10$	$12x + 2 + 10 - 9x - 5$	$x + 2 + 3 + x$
$5x - 3x + 5 - x + 2$	$x + 7$	$15x + 10$
$3x + 7$	$-x + 8$	$-6x - 2x + 3 - 3x + 4$
$8x + 2(7) + 1 - 5x$	$3x + 12$	$5x + 3(2) + 4 + 9x$

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Elementary Algebra Worksheet  
Simplifying Variable Expressions

NAME \_\_\_\_\_

1.  $8x - 3x =$  \_\_\_\_\_
2.  $23v - 5v =$  \_\_\_\_\_
3.  $21x - 12x =$  \_\_\_\_\_
4.  $13r + 4 - 7r =$  \_\_\_\_\_
5.  $12t - 7t + 5 - 1 =$  \_\_\_\_\_
6.  $13x - 2x + 6 =$  \_\_\_\_\_
7.  $4t + 6 - 2t =$  \_\_\_\_\_
8.  $15v - 2v + 7 =$  \_\_\_\_\_
9.  $23x - 18x + 9 - 1 =$  \_\_\_\_\_
10.  $15x - 12x =$  \_\_\_\_\_
11.  $21t - 4t =$  \_\_\_\_\_
12.  $18x - 3x + 1 =$  \_\_\_\_\_
13.  $4x + 12x =$  \_\_\_\_\_
14.  $9x - 6x =$  \_\_\_\_\_
15.  $12v - 8v - 5 =$  \_\_\_\_\_
16.  $14x - 7x - 9 =$  \_\_\_\_\_



www.elementarymathgames.net

In part B, select the inequality that holds true for the values of the variables specified in the question. Ministry of Education (MoE), Government of India has launched a platform for offering Massive Open Online Courses (MOOCs) that is popularly known as SWAYAM (Study Webs of Active learning for Young Aspiring Minds) on 9 th July, 2017. Algebraic Expressions - Function Table | Easy Enhance your algebraic skills by working out the problems in this batch of pdf worksheets. In part B, select the equation that holds true for the given value. Identify the inequality that is true for the given value of the variable(s) in Part B. By engaging with this subject, students learn to think, solve... Ministry of Education, Govt of India vide letter No. F.No. 12-5/2020-IS-4 dated 16.12.2021 has intimated that under the banner Azadi Ka Amrit Mahotsav the National Yogasanasports Federation has decided to run a project of 750 million Surya Namaskar from 01 January 2022... MCQs based on Equations | Multivariable Take your learning to the next level with this series of printable worksheets, where you have to identify the correct set of values and choose the correct equation that holds true for the set of variables. Whether you're looking for place value games, addition and subtraction practice, or geometry lessons, we cover a wide variety of math topics. There is an "Assignments from the Teacher" tab on the top of the students' page, plus a recommendation of math topics to try out. Pick which number sentence is true. In Part A, choose the correct value that satisfies the given inequality. Values for the variables are given. Perfect for document cameras, classroom scavenger hunts, peer tutoring, or small group instruction.6th Grade This ensemble of evaluating algebraic expression worksheets is designed by experts for students of grade 6, grade 7, grade 8, and high school. Identify the choice that satisfies the given inequality, in part A. On this worksheet, each expression has only one variable.5th and 6th GradesEvaluate each expression and write the answers on the answer page. This level does not include exponents, negative numbers, or parenthesis.5th and 6th GradesEvaluate Algebraic Expressions (Basic)Evaluate each expression; Substitute numbers for variables to solve. The 5th edition of Pariksha Pe Charcha the unique interactive program of Hon'ble Prime Minister with students teaches and parents will be held through virtual mode in February, 2022. To see more math games for fifth grade, please visit our Fifth Grade Math page.This lesson is designated as Level E and is targeted toward fifth graders.5.OA.1 Algebraic Thinking and Operations: Interpret and Write Algebraic ExpressionsStudents must demonstrate an ability to use braces, parentheses, and brackets in numerical expressions. Use the answer keys to verify your solutions. Learning becomes easy and entertaining. Students won't see the grade levels of the math assignments so that you can choose the appropriate grade level for each of your students without them knowing if they are working at a different grade level.As a teacher, you can modify which animations your students see. Presenting more-complicated expressions, this resource tests your comprehension. MCQs based on Inequalities | Single Variable Assist students to comprehend inequality with this great set of printable worksheets. In order to select participants who will be featured in Pariksha Pe Charcha programme... The lesson includes word problems and drag-and-drop question formats.Equivalent Fractions (Level E)Make equivalent fractions by filling in the correct number for the numerator or denominator. In view of the current... Replace the variables with the given values and figure out the dimensions. (For example, "If v = 7, what is 49/v?")Students enjoy using iKnowit.com math lessons because it feels like they are playing a fun game. (18 Worksheets) algebraic expressionvariablecoefficientconstanttermoperationsubstitute algebraisk uttryckvariabelkoefficientkonstanttermoperationer Evaluating for an Expression:When you are ask to evaluate the expression 5x+8 when x=3, they are asking you to solve, by replacing the x with a value of 3. The basic level expressions do not include parenthesis or exponents. The Central Institute of Educational Technology (CIET), a constituent unit of National Council of Educational Research and Training (NCERT), is inviting entries for the 26th All India Children's Educational Audio Video Festival (AICEAVF). In addition, you can decide how many hints a student should get in each math lesson.We encourage you to explore the hundreds of math lessons we have available on iKnowit.com. They should also be able to evaluate expressions that contain these symbols.Length Conversions (Metric) (Level E)Convert measurements using the metric system, including conversions between millimeters, centimeters, meters, and kilometers. Scientific and technological developments contribute to progress and help improve our standards of living. Decide which fractions are equivalent to the given fraction. Access some of these worksheets for free! MCQs based on Equations | Single Variable Assess how effectively you can evaluate algebraic expressions containing single variables with this attractive compilation. Complete the function table by evaluating simple algebraic expressions for the given set of values. Geometric Shapes: Finding the Dimensions | Single Variable This set of high school pdf worksheets contains problems based on the dimensions of geometric shapes that are represented with algebraic expressions involving single variables. (For example, evaluate the expression for: k = 6, 42/k)\* Complete the table to evaluate each algebraic expression. You can set up a class roster and create an individual login for each of your students. MCQs based on Inequalities | Multivariable Zoom through these pdfs to conquer the concept of inequality with multiple variables. NCERT now offers online courses for... Multiple-choice questions on equations and inequalities, function table, algebraic expressions in geometric shapes and ordering expressions are also included. Basic Level:Positive Whole NumbersEvaluate Algebraic Expressions (Basic) FREE Evaluate each algebraic expression. Evaluating using Algebraic Identities Engage this set of evaluating expressions using algebraic identities worksheets encompass topics on evaluating the numerical expressions using an appropriate algebraic identity. (For example, complete the expression when z = 2, z = 4, z = 6, and so on.)\* Evaluate the algebraic expression in word problem format. There are 30 task cards in the set. Learners need to evaluate expressions containing single as well as multi variables. Algebraic Expressions - Function Table | Moderate With concentration and practice, evaluation of algebraic expressions becomes easier. Geometric Shapes: Finding the Dimensions | Multivariable Illustrated with 2D shapes and 3D shapes, these worksheets present the dimensions of the geometrical figures as algebraic expressions with multiple variables. When a student gets a question correct, an animated character on the screen does a clever trick or even dances around! When the student answers a question incorrectly, he or she will be shown a detailed explanation, complete with an easy-to-understand graphic, that shows how to obtain the right answer next time.If students need a little nudge in the right direction, they can opt for a hint, using the "Hint" icon. GradeIntermediate Level:Exponents & ParenthesisTask Cards (Intermediate)These intermediate-level expressions have exponents and parenthesis. Practice evaluating basic algebraic expressions. Question formats include multiple choice. Choose the correct answer that satisfies the given equation in part A. They will be given a clue to help them figure out the math problem. Just, plug in the given values of the variables in the equations and record the answers in the table. You can also decide whether to use the read-aloud audio option. This is with reference to CBSE Notification No. 40/2021 dated 04.05.2021 regarding the Innovation Ambassador program - An online training program for teachers by CBSE in collaboration with Ministry of Education's Innovation Cell (MIC) and AICTE. 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In this online math lesson, students will practice the following skills:\* Evaluate the algebraic expression. This interactive math game will help students gain a greater understanding of basic algebra. We substitute (or replace) the x with a value of 3.So, 5x+8 = 5(3)+8 = 15 +8 = 23 //www.mathsisfun.com/algebra/substitution.html //www.bbc.co.uk/bitesize/quiz/q80364489 //www.learnalberta.ca/content/mejhm/index.html?l=0&ID1=AB.MATH.JR.PATT&ID2=AB.MATH.JR.PATT.ALG&lesson=html/object\_interactives/algebra/use\_it.html Evaluate the algebraic expression for the given value to determine the attributes. Each time a student does math problems on iKnowit, you will be able to see the scores and which problems they missed.When students log in to use the math program, they will have their own kid-friendly homepage. The teacher or parent has the ability to turn the hint mode on or off.When you sign up for an iKnowit.com account, you will be able to use our helpful administrative features. This festival showcases the...

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