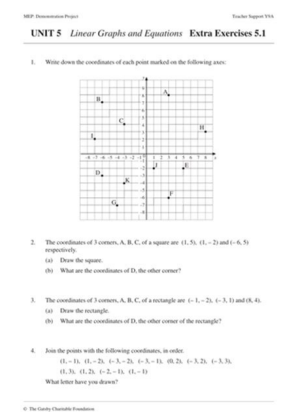


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36. $a(3a + 4) + 3a = 12a$ _____
37. $3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$ _____
38. $a^2 - 3^2 = (a + 3)(\quad)$ _____
39. $3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$ _____
40. $3a - 18 = 24a + \frac{1}{2}a^2 - 3^2$ _____
41. $3a + 4(3a + 3) + 3a + 3(3a + 3) = \frac{1}{2}a^2 - 24a + 3^2$ _____
42. The product of two polynomials is $\frac{1}{2}a^2 - 24a + 3^2$ _____
43. Common factor of $a^2 + 3a$ is _____
44. Factored form of $3(3a + 4) + 3a$ is _____
45. Factored form of $\frac{1}{2}a^2 - 24a + 3^2$ is _____
46. $3(3a + 4) + 3a$ is equal to _____
47. Volume of a rectangular box with length $2a$, breadth $3a$ and height $4a$ is _____
48. $3(3a + 4) + 3a = \frac{1}{2}a^2 - 24a + 3^2$ _____
49. $3(3a + 4) + 3a = \frac{1}{2}a^2 - 24a + 3^2$ _____
50. Area of a rectangular plot with sides $4a$ and $3a$ is _____
51. Volume of a rectangular box with $2a \times 3a \times 4a$ is _____
52. The coefficient of $3a$ is _____
53. Number of terms in the expansion of $a^2 + 3a + 4$ is _____
54. The sum of areas of two squares with sides $4a$ and $3a$ is _____
55. The common factor method of factorization for a polynomial is based on _____ property.
56. The side of the square of area $9a^2$ is _____
57. On simplification $\frac{3a + 3}{2}$ is _____
58. The factorization of $2a \times 3a$ is _____

Simplifying Expressions			
Expression	Simplified Expression	Expression	Simplified Expression
$3a + 4(3a + 3) + 3a$	$18a + 12 + 3a$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a + 4(3a + 3) + 3a$	$18a + 12 + 3a$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$
$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$	$3a - 18 = \frac{1}{2}a^2 - 24a + 3^2$	$\frac{1}{2}a^2 - 24a + 9$

Name : _____

Score : _____ Date : _____

MATH MONKS

Similar Rectangle Worksheet

For each pair of similar rectangles, find the missing parameter

1

6

12

x

24

x = _____

2

6

3

x

9

x = _____

3

9

4

36

x

x = _____

4

50

5

250

x

x = _____

5

66

11

x

44

x = _____

Pan Balance Problems

12

4

1

12

20

5

20

18

6

18

18

9

18

21

7

21

The answer key is automatically generated and is placed on the second page of the file. => Learn more Validate your response using the answer keys provided. There are three levels, the first level only including one operation. Students develop understanding by solving equations and inequalities intuitively before formal solutions are introduced. Algebraic identities charts Download and print these eye-catching charts, available in color and black-and-white format, to learn and memorize algebraic identities. Algebraic identities play an important role in the world of Algebra. Algebraic identities charts are also included. (12 Charts) Factoring using algebraic identities Access this range of printable worksheets to learn how to factorize polynomial expressions by applying the correct algebraic identities. Ready-made worksheets Additional title & instructions (HTML allowed) Key to Algebra offers a unique, proven way to introduce algebra to your students. (45 Worksheets) Evaluating using algebraic identities Put your algebraic identity skills on test with these evaluating expressions worksheets. Basic instructions for the worksheets Each worksheet is randomly generated and thus unique. Plug in the given value to find the value of the given expression. Books 8-10 extend coverage to the real number system. Refresh the worksheet page to get another of the same kind, until you are happy with the problems & layout. Read each problem and select the suitable algebraic identity. Books 5-7 introduce rational numbers and expressions. Now, you can gain a free access to some of these worksheets. Students begin their study of algebra in Books 1-4 using only integers. All pdf worksheets are synchronized with common core curriculum and are highly recommended for 8th grade and high school students. To customize the worksheets, you can control the number of problems, difficulty level, range of numbers used (you can include negative numbers and decimals), workspace below the problems, border around the problems, and additional instructions. Word problems relate algebra to familiar situations, helping students to understand abstract concepts. Download the set(3 Worksheets) You are here: Home → Worksheets → Evaluate expressions With this worksheet generator, you can make printable worksheets for evaluating simple variable expressions, when the value of the variable(s) is given. (18 Worksheets) Simplifying the expressions In this set of PDFs, expand the expressions by applying appropriate algebraic identities and then simplify the expressions. You can use the generator to make worksheets either in html or PDF format — both are easy to print. Download the set(3 Worksheets) Find the value using algebraic identities A set of five problems is enclosed in each worksheet of this practice resource perfect for grade 8 and high school students. Charts representing the geometrical interpretation act as visual tools for students in learning algebraic identities. The html worksheet has the advantage that you can save it directly from your browser (choose File → Save) and then later edit it in Word or other word processing program. Strengthen your algebraic skills by downloading these algebraic identities or algebraic formula worksheets on various topics like simplifying and evaluating algebraic expressions, expanding the expressions, factoring and a lot more. For example, the student might find the value of the expression $2(t - 5)$, when t has the value -6 . These worksheets suit best grades 6, 7, and 8, including pre-algebra and algebra 1 courses. Use appropriate identities or formulas and find the value of each expression. New concepts are explained in simple language, and examples are easy to follow. Here are some quick links for ready worksheets.

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