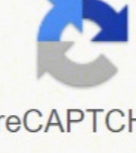
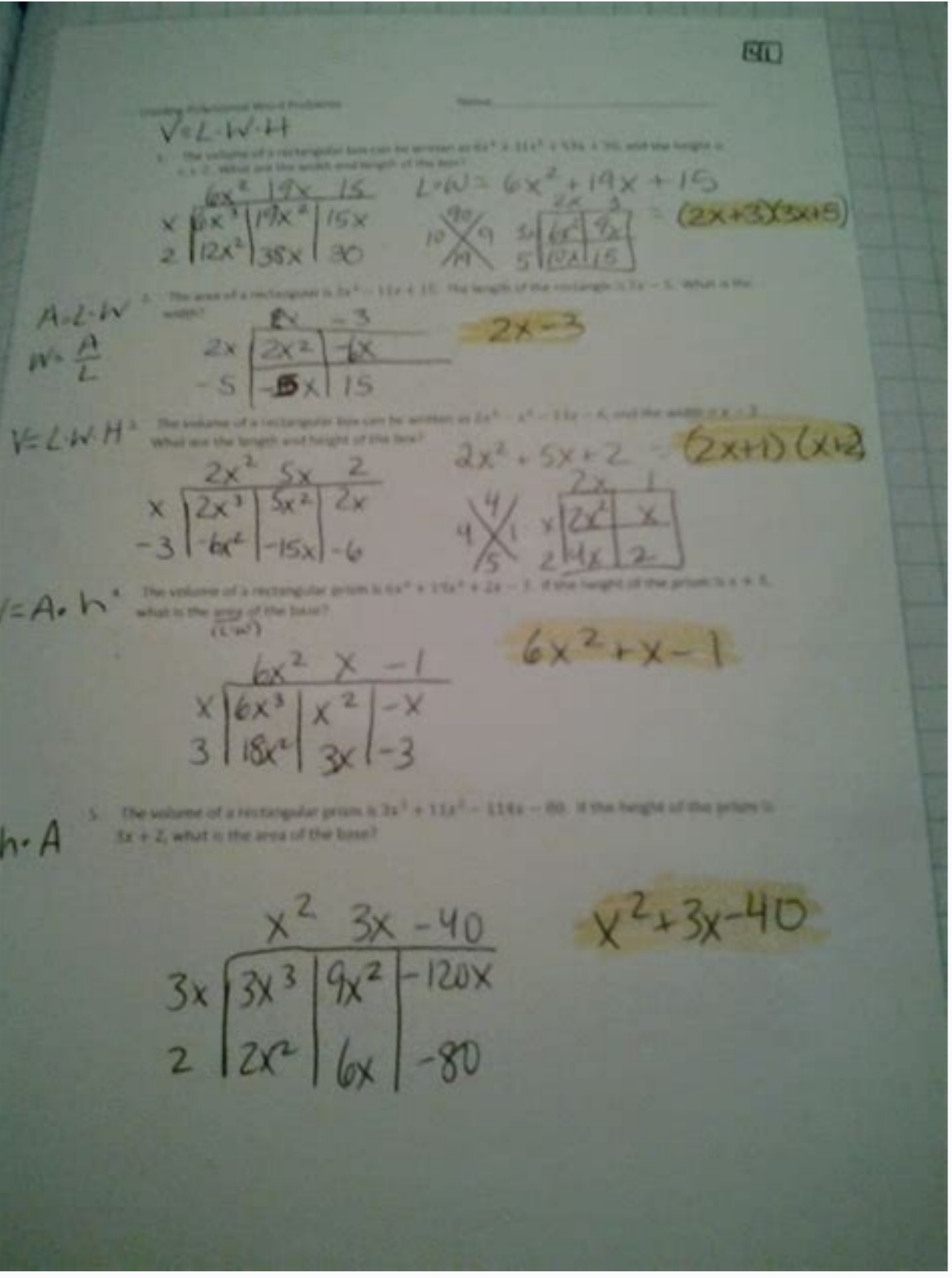


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1. The volume of a rectangular box can be written as  $6x^2 + 19x + 15$ , and the height is  $x + 2$ . What are the length and width of the box?  
 $6x^2 + 19x + 15 = (2x + 3)(3x + 5)$   
 2. The area of a rectangle is  $3x^2 - 11x + 10$ . The length of the rectangle is  $x - 5$ . What is the width?  
 $3x^2 - 11x + 10 = (x - 5)(3x - 2)$   
 3. The volume of a rectangular prism can be written as  $2x^3 - 11x^2 + 6x$ , and the width is  $x - 2$ . What are the length and height of the prism?  
 $2x^3 - 11x^2 + 6x = (x - 2)(2x^2 + 3x + 3)$   
 4. The volume of a rectangular prism is  $6x^3 + 17x^2 + 2x - 3$ . If the height of the prism is  $x + 3$ , what is the area of the base?  
 $6x^3 + 17x^2 + 2x - 3 = (x + 3)(6x^2 + x - 1)$   
 5. The volume of a rectangular prism is  $3x^3 + 11x^2 - 11x + 80$ . If the height of the prism is  $3x + 2$ , what is the area of the base?  
 $3x^3 + 11x^2 - 11x + 80 = (3x + 2)(x^2 + 3x - 40)$



Multiplying Polynomials

Date \_\_\_\_\_

Find each product.

- 1)  $(2r + 3)(7r + 7)$
- 2)  $(8b + 6)(b - 5)$
- 3)  $(7n + 5)(4n + 6)$
- 4)  $(5x + 8)(6x + 3)$
- 5)  $(a - 7)(2a + 2)$
- 6)  $(4v + 8)(8v^2 - 3v - 4)$
- 7)  $(x - 7)(5x^2 - 3x - 5)$
- 8)  $(6x - 4)(7x^2 + x - 4)$
- 9)  $(3n - 2)(3n^2 - 8n - 5)$
- 10)  $(5k - 5)(k^2 - 4k - 5)$
- 11)  $(2x^2 + 6x - 8)(2x^2 - 6x - 3)$
- 12)  $(2p^2 - 7p + 8)(2p^2 - 5p - 3)$
- 13)  $(5n^2 + 3n - 8)(4n^2 - 6n - 2)$
- 14)  $(8m^2 + 8m + 3)(2m^2 + 8m + 4)$
- 15)  $(4x^2 - 7x - 1)(6x^2 + x - 7)$
- 16)  $(2r^2 + 5r - 1)(5r^2 + 2r - 8)$
- 17)  $(b^2 - 4b + 6)^2$
- 18)  $(7n^2 + 8n + 7)(7n^2 + n - 5)$

Algebra Factoring Special Cases Name: \_\_\_\_\_  
 Period: \_\_\_\_\_ # \_\_\_\_\_

1.  $\frac{5}{9} - \frac{5}{11}$
2.  $x^2 - 81$
3.  $x^2 - 100$

4.  $4x^2 - 51$
5.  $16x^2 - 49$
6.  $9x^2 - 100$

7.  $16x^2 - 1$
8.  $49x^2 - 121$
9.  $81x^2 - 100$

10.  $x^2 + 10x + 25$
11.  $x^2 + 12x + 36$
12.  $4x^2 + 20x + 25$

13.  $x^2 - 2x + 1$
14.  $x^2 - 24x + 144$
15.  $25x^2 - 40x + 16$

## Factoring Quadratic Expressions

Factor each completely.

1)  $x^2 - 7x - 18$

2)  $p^2 - 5p - 14$

3)  $m^2 - 9m + 8$

4)  $x^2 - 16x + 63$

5)  $7x^2 - 31x - 20$

6)  $7k^2 + 9k$

7)  $7x^2 - 45x - 28$

8)  $2b^2 + 17b + 21$

9)  $5p^2 - p - 18$

10)  $28n^4 + 16n^3 - 80n^2$

11)  $3b^3 - 5b^2 + 2b$

12)  $7x^2 - 32x - 60$

13)  $30n^2b - 87nb + 30b$

14)  $9r^2 - 5r - 10$

15)  $9p^2r + 73pr + 70r$

16)  $9x^2 + 7x - 56$

17)  $4x^3 + 43x^2 + 30x$

18)  $10m^2 + 89m - 9$

## Critical thinking questions:

19) For what values of  $b$  is the expression factorable?  
 $x^2 + bx + 12$

20) Name four values of  $b$  which make the expression factorable:  
 $x^2 - 3x + b$

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Observe each monomial available and identify the missing addend. Then graph the line:  $x + 2y = 1$  Follow the steps given to solve: Draw a line with y-intercept, 6, and slope is -4. Complete the Mirror Image: Grid One-half of real-life objects are drawn in the grids. Example:  $y = x + 4$  Find the x and y intercepts of the line. Example:  $y - 1 = x$  Based on the information provided, answer each of the following questions. Plus each one comes with an answer key. Simply add the monomial coefficients and do not change the variable part of the monomials. Example:  $2y = 3x + 2$  Follow the steps to find the x and y intercepts of the line:  $y = 2x + 6$  For each problem find the x and y intercepts of the line, then check your answers and add up your total score. Answer each of the following questions. Identify if the dotted line is a line of symmetry. Cut-Paste Activity: Symmetric / Asymmetric Cut out each shape from the bottom of these printable worksheets for 1st grade and 2nd grade kids and paste them in the appropriate category (symmetric or asymmetric shapes). Complete the following problems, then put your answer in the "My Answer" box. Missing Addend: Two addends These pdf worksheets present problems in horizontal format consisting of missing monomials. Adding Two Monomials: Single Variable | Level 2 This bundle of worksheets in level 2 raises the bar by including both fractions & integers and adds tremendous value to your practice session. Symmetry on English Letters Grade 4 children identify if the English letters shown are cut at the line of symmetry in part 1. Direct students to add the monomials and find the sum. Adding Two Monomials: Multivariable | Level 1 Maximize your learning with this stock of high school worksheets comprising monomials with two or more variables in a term with integer coefficients. Example:  $8y = 5x - 2$ ; also 4 less than a number n is thirty. Begin your practice with our free symmetry worksheets! Recognizing Lines of Symmetry Each symmetry worksheet pdf here shows eight different shapes through which a dotted line is drawn. Adding Two Monomials: Single Variable | Level 1 Incorporate this set of level 1 worksheets featuring integer coefficients and learn how to add monomials. Example: Draw a line with x-intercept, -1 and y-intercept, -1 Based on the graph, find the x-intercepts and y-intercept of the lines listed below. Find the x-intercept and y-intercept of the given lines. Draw lines of symmetry on the given English letters in part 2. Unfold the Mystery Each folded paper has a cutout region. Learn about intercepts and how to solve for them in a given equation. Example: Find the x and y intercepts of the line for the equation  $2y = 4x + 5$  Using the graph and equation given, find the x-intercept and y-intercept of the given line. Determine and draw lines of symmetry on each shape and write down the number of lines of symmetry seen. Lines of Symmetry: More than One Line Shapes with more than one line of symmetry are given in these pdf worksheets. Each one has model problems worked out step by step, practice problems, as well as challenge questions at the sheets end. Adding Two Monomials: Multivariable | Level 2 Packed with exercises on addition of monomials featuring integers and fractions, this set, improves your exam-acing prowess. When we add two monomials, add only the numeric part and retain the variable part. Symmetry worksheets consist of a variety of skills for children in grade 1 through grade 5 to understand the lines of symmetry in different shapes. Example: Draw a line with y-intercept, 9, that is parallel to the line  $y = 4x - 3$  Unfortunately, in the last year, adblock has now begun disabling almost all images from loading on our site, which has lead to mathwarehouse becoming unusable for adblock users. Example:  $8y = 2x - 4$  Find the x and y intercepts of the line. Choose the exact shape obtained at the center when the paper is unfolded. Add the numerical coefficients and represent the sum with the variable and the exponents. Complete the second half of each symmetrical shape and solve the pdf worksheets. Printable exercises to identify and draw the lines of symmetry, complete the shapes, count the lines of symmetry in each shape, to identify symmetrical or asymmetrical shapes and to determine the perimeter of shapes are given here for practice. All of your worksheets are now here on Mathwarehouse.com. Mathworksheetsgo.com is now a part of Mathwarehouse.com. Please update your bookmarks! Enjoy these free printable sheets.

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