Factoring
Review

Name _____
Period _____

Multiply. *A.4.B*

1. (-2x - 4) (2x + 5)

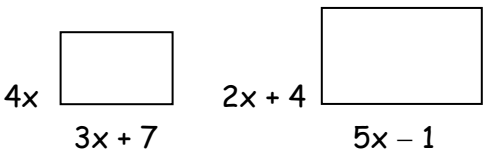
2. (3x + 2) (-3x – 1)

3. (5x - 2) (x + 3)

4. (-x + 4) (-3x – 4)

5. Find the area of a rectangle with a length of (8x – 2) cm and a width of (3x + 5) cm.

6. Find the total area of both rectangles.



7. Find the volume of a rectangular prism with a length of (2x - 1) cm, a width of (-4x + 5) cm, and a height of (3x) cm.

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Name _____
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Factor and solve. (*A.4.A*)

8. $x^2 + 8x + 15 = 0$

9. $x^2 + 20 = 12x$

10. $x^2 - 36 = 0$

11. $x^2 - 6x = -8$

Solve. (*A.4.A, A.10.A*)

12. Rose owns a rectangular quilt. The area of her quilt is $(x^2 - 15x + 26)$ feet. What is the width of her quilt if the length is $(x - 13)$ feet?

13. Brian spent $\$(5x^2 + 8x + 3)$ dollars for $(x + 1)$ CD's. Assuming that each CD was the same price, how much was each CD?

14. The area of a rectangular kitchen table is $(t^2 + t - 6)$ square inches.

    a. Find the dimensions of the table in terms of t.

    b. What are the dimensions of the table if t = 15?

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15. The area of a triangle is given by the equation $h^2 - 6h = 72$ where h is the height of the triangle. What is the value of h?

16. The length of time required by a high-speed printer to print a large set of documents is given by the equation $x^2 - 3x - 54 = 0$ where x is the time in hours. How many hours are required to print the set of documents?

17. The area of a rectangle is $3x^2 + 14x + 8$, and the width is $x + 4$. What is the rectangle's length?

18. The area of a rectangle is given by the equation $2L^2 - 11L = -5$, in which L is the rectangle's length. What is the length of the rectangle?