

Reteaching 8-3

Multiplying Binomials

OBJECTIVE: Multiplying binomials

MATERIALS: None

To multiply two binomials, follow these steps:

- Multiply each term in one binomial by each term of the other binomial. Drawing arrows is a visual reminder of what to do in a helpful technique.
- Circle like terms and combine.

Example

Find the product $(x + 7)(x + 2)$.

$$(x + 7)(x + 2)$$

$$x^2 + 2x$$

$$(x + 7)(x + 2)$$

$$7x + 14$$

$$x^2 + 2x + 7x + 14$$

$$x^2 + \textcircled{2x} + \textcircled{7x} + 14$$

$$x^2 + 9x + 14$$

— Draw arrows from the first term in the first binomial to both terms in the second binomial.

— Multiply each term of the second binomial by x .

— Draw arrows from the second term in the first binomial to both terms in the second binomial.

— Multiply each term of the second binomial by 7.

— Add the two expressions.

— Circle like terms and combine.

— Solution

Exercises

Use arrows as shown above to simplify each product.

1. $(x + 6)(x + 2)$

2. $(x + 8)(x + 4)$

3. $(x + 3)(x + 9)$

4. $(x + 2)(x + 7)$

5. $(2x + 3)(x + 4)$

6. $(x + 4)(2x + 3)$

Simplify each product.

7. $(7x + 4)(2x + 4)$

8. $(3x + 2)(5x + 2)$

9. $(3x + 8)(x + 1)$

10. $(2x + 1)(x + 1)$

11. $(4x + 1)(2x + 1)$

12. $(3x + 3)(x + 2)$

3 8 Reteaching Transforming Polynomials

Padhraic Smyth



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Myron Frederick Roszkopf,Robert Lee Morton,Joseph R. Hooten,Harry Sitomer,1961

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