

Activity Lesson Opener

For use with pages 619–624

SET UP: Work with a partner.**Find each product.**

1. $(x + 1)(x - 1)$ 2. $(m + 2)(m - 2)$
 3. $(y + 4)(y - 4)$ 4. $(n + 8)(n - 8)$

Use Questions 1–4 to answer Questions 5–7.

5. Describe the similarities among the answers.
 6. Compare the first term of each answer to the first term of each of the binomials in the corresponding question. What do you notice?
 7. Compare the last term of each answer to the second term of each of the binomials in the corresponding question. What do you notice?

Find each product.

8. $(x + 1)^2$ 9. $(m + 2)^2$
 10. $(y - 4)^2$ 11. $(n - 8)^2$

Use Questions 8–11 to answer Questions 12–14.

12. Describe the similarities among the answers.
 13. Compare the first term of each answer to the first term of the binomial in the corresponding question. What do you notice?
 14. Compare the last term of each answer to the second term of the binomial in the corresponding question. What do you notice?
 15. Compare the middle term of each answer to twice the product of the two terms of the binomial in the corresponding question. What do you notice?