
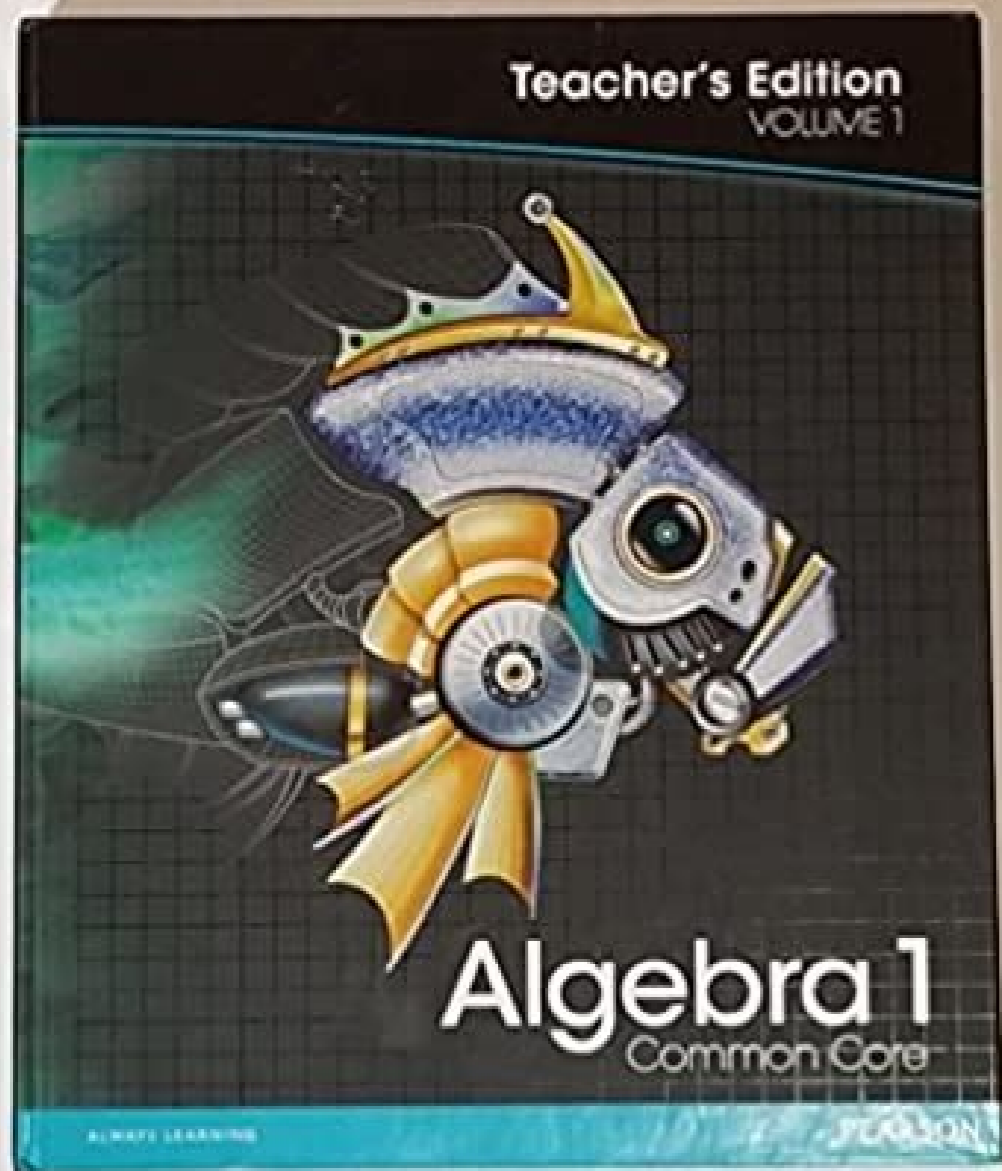


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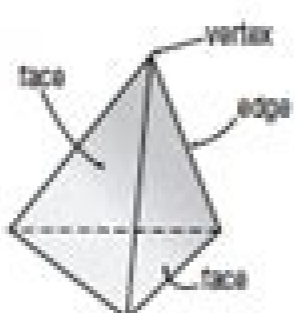
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**7-4 Study Guide and Intervention**  
*Three-Dimensional Figures*

7MG3.6

A **polyhedron** is a three-dimensional figure with flat surfaces that are polygons. A **prism** is a polyhedron with two parallel, congruent faces called **bases**. A **pyramid** is a polyhedron with one base that is a polygon and faces that are triangles. Prisms and pyramids are named by the shape of their bases.

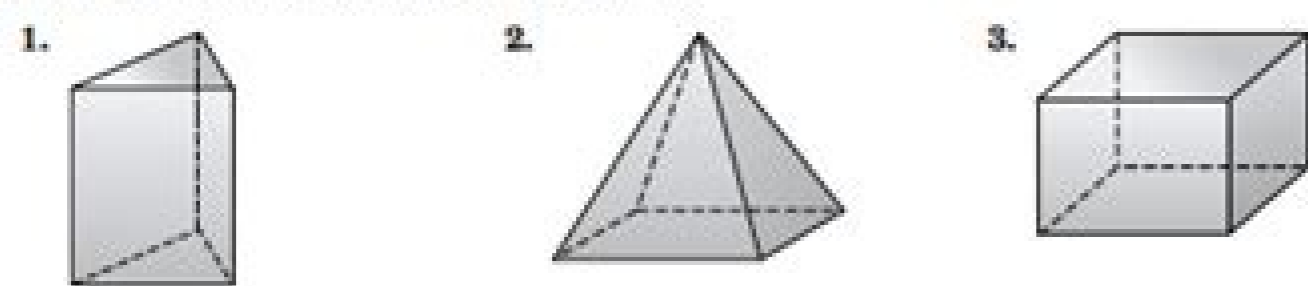
**Example** Identify the solid. Name the number and shapes of the faces. Then name the number of edges and vertices.



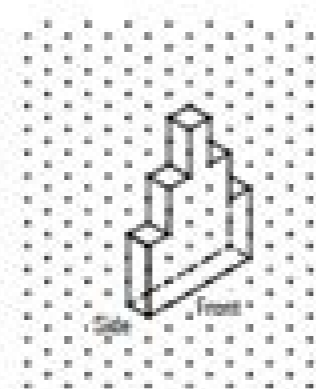
The figure has one base that is a triangle, so it is a triangular pyramid. The other faces are also triangles. It has a total of 4 faces, 6 edges, and 4 vertices.

**Exercises**

Identify each solid. Name the number and shapes of the faces. Then name the number of edges and vertices.



4. Draw and label the top, front, and side views of the three-dimensional drawing at the right.



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Lesson 7-4

**Problem Solving Strategy**  
**Make a Plan**

**Problem** Find the perimeter of the rectangle. The length is 12 units and the width is 8 units.

**Plan** Use the formula for the perimeter of a rectangle:  $P = 2l + 2w$ .

**Solve**  $P = 2(12) + 2(8)$   
 $P = 24 + 16$   
 $P = 40$

**Check** The perimeter is 40 units.

**LESSON 10.6**

**Practice B**

Match the trinomial with a correct factorization.

- |                      |                      |
|----------------------|----------------------|
| 1. $2x^2 + 2x - 12$  | A. $(2x + 3)(x + 4)$ |
| 2. $2x^2 + 14x + 12$ | B. $2(x - 2)(x + 3)$ |
| 3. $2x^2 - 10x + 12$ | C. $2(x + 1)(x + 6)$ |
| 4. $2x^2 - 2x - 12$  | D. $2(x - 1)(x - 6)$ |
| 5. $2x^2 + 11x + 12$ | E. $2(x + 2)(x - 3)$ |
| 6. $2x^2 - 14x + 12$ | F. $2(x - 2)(x - 3)$ |

Choose the correct factorization. If neither is correct, find the correct factorization.

- |                      |                      |                       |
|----------------------|----------------------|-----------------------|
| 7. $2x^2 + 4x - 16$  | B. $5x^2 - 17x + 6$  | 9. $6x^2 - 17x + 5$   |
| A. $(2x + 4)(x - 4)$ | A. $(5x + 1)(x + 6)$ | A. $(3x - 1)(2x - 5)$ |
| B. $(2x + 8)(x - 2)$ | B. $(5x - 3)(x - 2)$ | B. $(3x + 1)(2x + 5)$ |

Factor the trinomial if possible. If it cannot be factored, write not factorable.

- |                       |                      |                       |
|-----------------------|----------------------|-----------------------|
| 10. $2x^2 + 11x + 15$ | 11. $3x^2 + 10x - 7$ | 12. $10x^2 + 13x - 3$ |
| 13. $10x^2 + 17x + 3$ | 14. $8x^2 + 2x - 3$  | 15. $3x^2 + 2x - 2$   |
| 16. $12x^2 + 16x - 3$ | 17. $4x^2 - 3x + 8$  | 18. $10x^2 - 9x - 9$  |

Solve the equation by factoring.

- |                            |                           |                          |
|----------------------------|---------------------------|--------------------------|
| 19. $6x^2 - 10x - 4 = 0$   | 20. $6x^2 - 27x + 27 = 0$ | 21. $3x^2 + 5x + 2 = 0$  |
| 22. $8x^2 + 10x + 3 = 0$   | 23. $4x^2 - 8x - 5 = 0$   | 24. $12x^2 - 5x - 3 = 0$ |
| 25. $15x^2 + 16x - 15 = 0$ | 26. $8x^2 - 22x + 5 = 0$  | 27. $6x^2 + 5x + 1 = 0$  |

**28. Summer Business** Your friend's weekly revenue  $R$  (in dollars) from her ice-cream T-shirt business can be modeled by

$$R = -2t^2 + 37t + 60$$

where  $t$  represents the week of sales, with  $t = 0$  for the first week. In the first week, 3 T-shirts were sold. After that, the sales increased by 2 T-shirts per week. Did the price of T-shirts remain constant during the 5-week summer season? Explain.

**29. Cliff Diving** A cliff diver jumps from a ledge 96 feet above the ocean with an initial upward velocity of 16 feet per second. How long will it take until the diver enters the water?



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