

Recognizing and Drawing Shapes

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

Shapes are all around us! A **flat shape** is named by counting its **sides** and **corners** (also called **angles**). A **triangle** has 3 sides and 3 corners. A **quadrilateral** has 4 sides and 4 corners — squares and rectangles are quadrilaterals. A **pentagon** has 5 sides, a **hexagon** has 6 sides. Solid shapes are different: a **cube** has 6 flat faces, and a **sphere** is round like a ball. When you draw a shape, just make sure it has the right number of sides!

◇ **Example:** A shape has 4 sides and 4 corners. Name one shape it could be.

⇒ Let's think about the sides. A shape with 4 sides is called a quadrilateral. A square is a special quadrilateral with 4 equal sides and 4 corners. A rectangle also has 4 sides and 4 corners. So a shape with 4 sides and 4 corners could be a square or a rectangle. Counting the sides tells us the name!

Answer: a square (or rectangle)

PRACTICE

Name the shape or count its sides and corners.

- A triangle has how many sides? _____
- A triangle has how many corners? _____
- A square has how many sides? _____
- A square has how many corners? _____
- A rectangle has how many sides? _____
- A shape with 5 sides is called a _____. _____
- A shape with 6 sides is called a _____. _____
- A shape with 3 sides is called a _____. _____
- A hexagon has how many sides? _____
- A pentagon has how many corners? _____
- A shape with 4 equal sides and 4 corners is a _____. _____
- A quadrilateral has how many sides? _____
- A cube has how many flat faces? _____
- A round solid shape like a ball is a _____. _____
- How many corners does a hexagon have? _____
- A triangle has 3 sides. A square has 4. Which has more sides? _____
- A shape with no straight sides that is round is a _____. _____
- How many more sides does a pentagon have than a triangle? _____
- A shape has 4 sides but is not a square. It could be a _____. _____
- Count the sides: a hexagon plus a triangle have how many sides in all? _____

◆ Word Problems

- Mia is drawing road signs. She draws a STOP sign that has 8 sides. A shape with 8 sides is called an octagon. How many corners does her STOP sign have? _____
- Liam built a tower with blocks. He used a cube and a sphere. How many flat faces does the cube have, and is the sphere flat or round? _____
- Ava drew a triangle and a pentagon for her art project. How many corners did she draw in all? _____
- Noah's teacher asked the class to find shapes with 4 sides. Noah said a square, a rectangle, and a triangle all have 4 sides. Which shape did Noah name by mistake? _____



Answer Keys

- | | |
|--------------------|---------------------------------------|
| 1. 3 | 13. 6 |
| 2. 3 | 14. <i>sphere</i> |
| 3. 4 | 15. 6 |
| 4. 4 | 16. <i>square</i> |
| 5. 4 | 17. <i>circle</i> |
| 6. <i>pentagon</i> | 18. 2 |
| 7. <i>hexagon</i> | 19. <i>rectangle</i> |
| 8. <i>triangle</i> | 20. 9 |
| 9. 6 | 21. 8 corners |
| 10. 5 | 22. 6 flat faces; the sphere is round |
| 11. <i>square</i> | 23. 8 corners |
| 12. 4 | 24. the triangle |

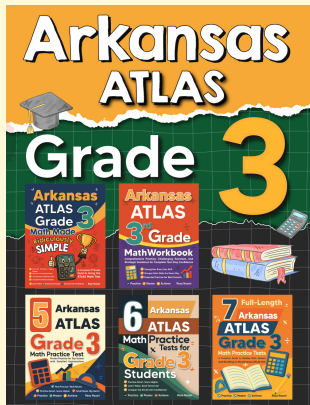
Step-by-Step Explanations

- | | |
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| <p>1. A triangle always has exactly 3 straight sides.</p> <p>2. A triangle has 3 corners, one where each pair of sides meets.</p> <p>3. A square has 4 sides, and they are all the same length.</p> <p>4. A square has 4 corners, one at each place two sides meet.</p> <p>5. A rectangle has 4 sides, so it is a quadrilateral.</p> <p>6. A 5-sided shape is a pentagon. Think of 5 for "pent."</p> <p>7. A 6-sided shape is a hexagon, like the cells in a beehive.</p> <p>8. A 3-sided shape is a triangle. "Tri" means three.</p> <p>9. A hexagon has exactly 6 straight sides.</p> <p>10. A pentagon has 5 sides and 5 corners that match.</p> <p>11. When all 4 sides are the same length, the shape is a square.</p> <p>12. "Quad" means four, so a quadrilateral has 4 sides.</p> <p>13. A cube is a solid shape with 6 flat square faces.</p> <p>14. A sphere is perfectly round, like a ball or an orange.</p> | <p>15. A hexagon has 6 corners to match its 6 sides.</p> <p>16. Compare 3 and 4: since $4 > 3$, the square has more sides.</p> <p>17. A circle is a flat round shape with no straight sides or corners.</p> <p>18. A pentagon has 5 sides and a triangle has 3; $5 - 3 = 2$.</p> <p>19. A rectangle has 4 sides but the sides are not all equal.</p> <p>20. A hexagon has 6 sides and a triangle has 3; $6 + 3 = 9$.</p> <p>21. A flat shape has the same number of corners as sides. Since the octagon has 8 sides, it also has 8 corners.</p> <p>22. A cube has 6 flat square faces. A sphere has no flat faces at all — it is round like a ball.</p> <p>23. A triangle has 3 corners and a pentagon has 5 corners. Add them: $3 + 5 = 8$ corners.</p> <p>24. A square and a rectangle each have 4 sides, but a triangle has only 3 sides. Noah named the triangle by mistake.</p> |
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