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30 Recognizing and Drawing Shapes



UNIT 6 **143**

PAGES 270 AND 271

2 Focused Instruction 2) Focused Instructio First, students will recognize that a rectangle can How many sides does the shape have be describes as both a quadrilateral and a rectangle How many angles does it have? You can describe because a rectangle is a type of quadrilateral. Choose the word that describes the shape with this number some shapes using more than one name. of sides and angle Next, students will draw a plane figure with six sides, triangle quadrilateral pentagon blexago recognizing that a plane figure is a flat figure that is Are the corners of this figure square or not square closed. square What is true about the opposite sides of the figure? Conclude the Focused Instruction section by having students answer three questions about shapes. <u>They are the same length.</u> Look at your answers to the last two questions. What is another name that describes Cora's shape? rectai Use a description to draw a shape. Draw a plane figure that has 6 sides and 6 angles What is a plane figure? a figure that is flat and has sides that meet at angles straight edges of a figure What are sides? What are angles? the places where sides meet DUPLICATING THIS MATERIAL IS ILLEGA Vocabulary angle: a figure formed where two sides of a plane figure meet **2**) Fo sed Instruction **cube:** a solid figure with six square faces Oraw your plane figure in the space below. edge: the place where two faces meet in a solid Accept any hexagon figure face: the side or base of a solid figure **hexagon:** a plane figure with six sides and six What is the plane figure you drew called? _ hexagon What is true about the number of sides and the number angles Can you draw a plane of angles in a plane figure? figure with 3 sides and 4 corners? With 6 sides **pentagon:** a plane figure with five sides and five They are always the same and 3 corners? angles plane figure: a flat shape made up of straight sides and angles Use what you know about recognizing and drawing shapes to answer these questions. quadrilateral: a plane figure with four sides and 1 Draw a plane figure that has 4 sides and 4 angles. four angles Accept any quadrilateral. rectangle: a quadrilateral with opposite sides that are the same length and four square corners **side:** a straight line that makes up part of a plane 2 A plane figure has 5 sides and 5 angles. What is the name of the figure plane figure? solid figure: a figure that is not flat pentagon square: a guadrilateral with four equal sides and 3 How many square faces make up a cube? four square corners **vertex:** the corner where edges meet in a solid figure; plural vertices Press, Inc. DUPLICATING THIS MATERIAL IS ILLEGA

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UNIT 6



Guided Practice

Students should complete the Guided Practice section on their own. Offer assistance as needed, pointing out the reminder and hint boxes along the right side of the page.

Independent Practice Answer Rationales

- A quadrilateral is defined as a shape with 4 sides. Count the number of sides on the shapes for each answer choice to determine whether or not they have 4 sides. The second, fourth, and sixth figures are quadrilaterals because they each have 4 sides and 4 angles. The first, third, and fifth figures are not quadrilaterals. The first is a triangle, the third is a pentagon, and the fifth is a hexagon.
- 2 A cube is a solid figure that it is made up of top and bottom squares and 4 square sides. Choice B is correct because a cube has 6 faces that are squares. Choice A is incorrect because this would just be a flat square. Choice C is incorrect because 8 represents the number of vertices on a cube, not the number of faces. Choice D is incorrect because 12 represents the number of edges on a cube, not the number of faces.

LESSON **30** RECOGNIZING AND DRAWING SHAPES

- **3** A shape with 3 sides and 3 angles is a triangle. Triangles can look different, as long as they have 3 sides. Students should have drawn any type of triangle.
- 4 The first figure is a trapezoid, which has 4 sides. The two triangles each have 3 sides, and the square has 4 sides. These four figures all have less than 5 sides. The middle figure is a hexagon, which has 6 sides.
- **5 PARTS A, B, AND C** The students should recognize the individual shapes within the figure, even if they share sides with another shape. Color the triangle red, the irregular pentagon green, and the remaining shapes orange because they are hexagons.



Extension Activity

Cut out examples of triangles, quadrilaterals, pentagons, and hexagons. Give each student a figure and have the class get into groups based on the figures. Repeat the activity, giving students cut outs of rectangles, squares, and quadrilaterals that are not rectangles or squares