Unit 12 · Shapes and Equal Shares Cheat Sheet

Unit 12 focus: naming and drawing shapes by sides and angles, and cubes

1 Big Idea

Name a shape by counting its sides and angles, not by how it is turned. A cube is a solid with 6 equal square faces.

2 Important Vocabulary

side	A straight line that makes part of a shape.	a triangle has 3 sides
angle	The corner made where two sides meet.	a square has 4 angles
quadrilateral	A closed shape with 4 sides and 4 angles.	squares, rectangles, and other 4-sided shapes
cube	A solid with 6 equal square faces.	a number cube

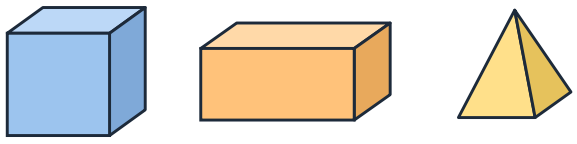
3 How It Works

Name a closed shape with 6 straight sides.

Example: 6 sides
Count sides: 6
Count angles: 6

Answer: hexagon

4 Visual Model



cube **not a cube** **pyramid**

A cube's faces are all the same square.

5 ★ Remember This · Watch Out!

★ Remember this

- 3 sides: triangle. 4: quadrilateral. 5: pentagon. 6: hexagon.
- Sides can be different lengths.

⚠ Watch out!

- **A tipped square is a "diamond":** it is still a quadrilateral
- **Counting only the faces you see:** a cube has 6 faces

6 Try It!

1. Sides on a triangle and a hexagon
   Answer: 6
2. Faces on 2 cubes
   Answer: 12

Answers are printed upside down. Turn the page to check!

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More practice: partitioning rectangles into squares and halves, thirds and fourths

1 Big Idea

Equal shares are the same size. Two equal shares are halves, three are thirds, four are fourths. A whole is two halves, three thirds, or four fourths.

2 Important Vocabulary

equal shares	Parts that are the same size.	a sandwich cut into 2 equal shares
halves	2 equal shares of a whole.	one half of a pizza
thirds	3 equal shares of a whole.	one third of a cake
fourths	4 equal shares of a whole.	one fourth of a square

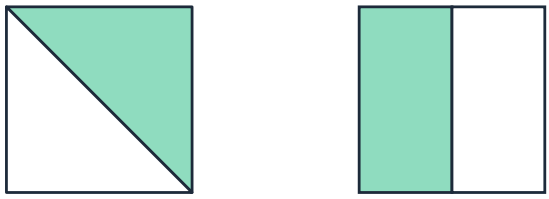
3 How It Works

A pizza is cut into fourths. Ana eats one fourth. How much is left?

Example: 4 fourths
Whole: four fourths
4 − 1 = 3

Answer: three fourths

4 Visual Model



Both shaded parts are one half of the same square.

5 ★ Remember This · Watch Out!

★ Remember this

- More shares of the same whole means smaller shares.
- Rows and columns of same-size squares: count by rows.

⚠ Watch out!

- **Unequal parts:** 3 parts are thirds only if they are equal
- **Fourths bigger than halves?:** no: one half is bigger

6 Try It!

1. How many thirds make a whole?
   Answer: ε
2. 4 rows of 5 squares
   Answer: 0Z

Answers are printed upside down. Turn the page to check!