Investigating Shapes

Geometry

Instructions:

Cut out the shape pieces along the dotted lines. Read each shape riddle and place the matching shape piece below it.

Helpful Hint:

All shapes have attributes, or features. These attributes never change—no matter the size of the shape. For example, all squares—big and small—have 4 right angles and 4 equal sides. Here are some key words to remember when talking about shape attributes:

side: an edge of a two-dimensional shape
angle: the inside corner where two sides of a shape meet
right angle: an angle that measures exactly 90°
vertex: the point where two lines meet to form an angle; the plural is "vertices"

Investigating Shapes

1 I have 3 sides and 3 angles. What am I?

2 All 4 of my sides are the same length, but I have no right angles. What am I?

3 My 4 sides are all the same length, and I have 4 right angles. What am I?

4 Of my 4 sides, 2 are the same length, while the other 2 each have a different length. What am I?

5 I have 4 sides in 2 different lengths and 4 right angles. What am I?

6 I have 8 sides, vertices. Wha

7 I have 0 vertices and 0 sides. What am I?

8 I have 4 sides that don't all have to be the same length and 4 vertices that don't have to form right angles. What am I?

9 I have 5 sides and 5 vertices. What am I?

triangle

square

rhombus

parallelogram

isosceles trapezoid

pentagon

circle

rectangle

octagon

4-24

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Investigating Shapes

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3 My 4 sides are all the same length, and I have 4 right angles. What am I?

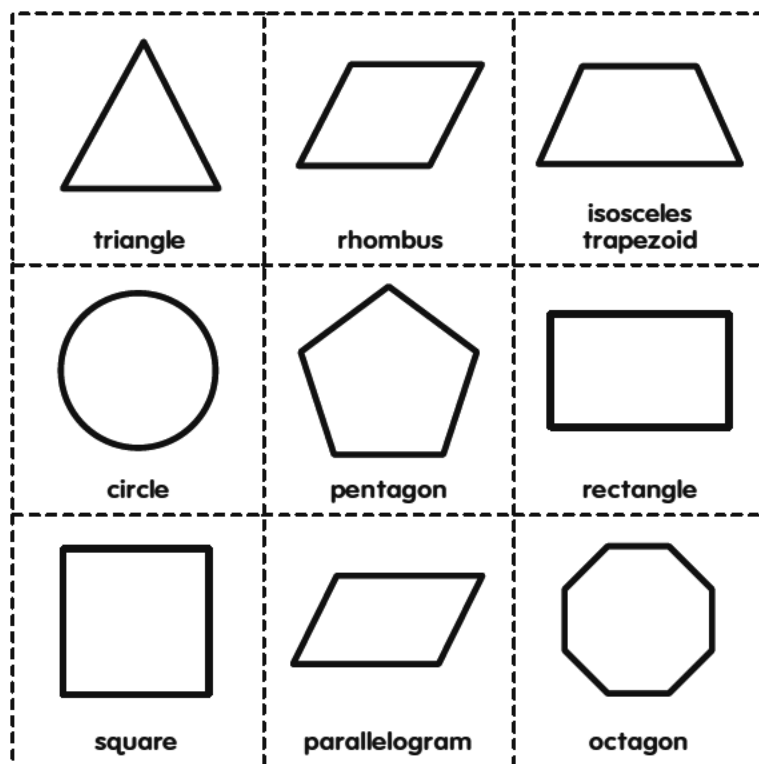**4** Of my 4 sides, 2 are the same length, while the other 2 each have a different length. What am I?

5 I have 4 sides in 2 different lengths and 4 right angles. What am I?

6 I have 8 sides and 8 vertices. What am I?

7 I have 0 vertices and 0 sides. What am I?

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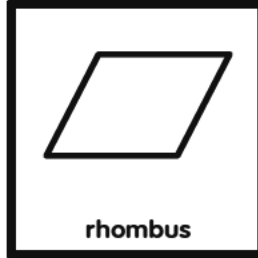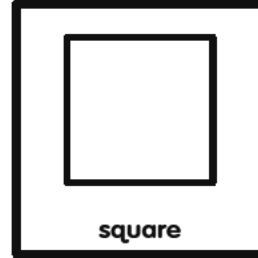**9** I have 5 sides and 5 vertices. What am I?

triangle	rhombus	isosceles trapezoid
circle	pentagon	rectangle
square	parallelogram	octagon

Answer Key

1 I have 3 sides and 3 angles. What am I?

triangle

2 All 4 of my sides are the same length, but I have no right angles. What am I?
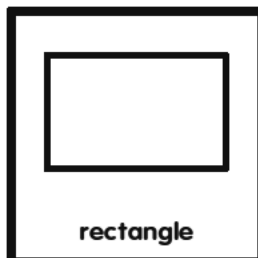
rhombus

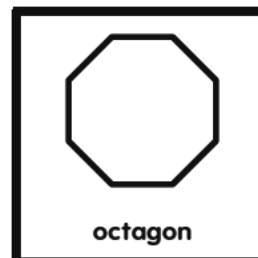**3** My 4 sides are all the same length, and I have 4 right angles. What am I?

square

4 Of my 4 sides, 2 are the same length, while the other 2 each have a different length. What am I?
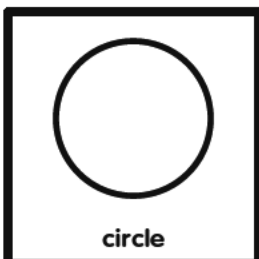
isosceles trapezoid

5 I have 4 sides in 2 different lengths and 4 right angles. What am I?

rectangle

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octagon

7 I have 0 vertices and 0 sides. What am I?

circle

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parallelogram

9 I have 5 sides and 5 vertices. What am I?

pentagon

4-24