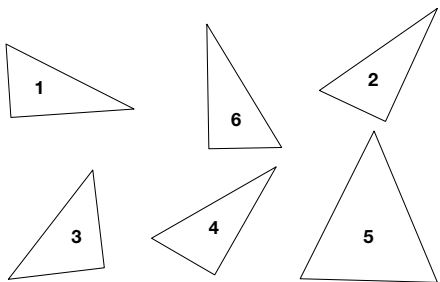Name _____ Date _____

When Are Shapes the Same?

Cut out Shapes Y and Z. Color both sides of each shape.

1. Circle shapes congruent to Shape Y.

A   B   C
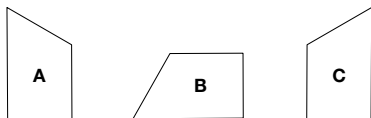
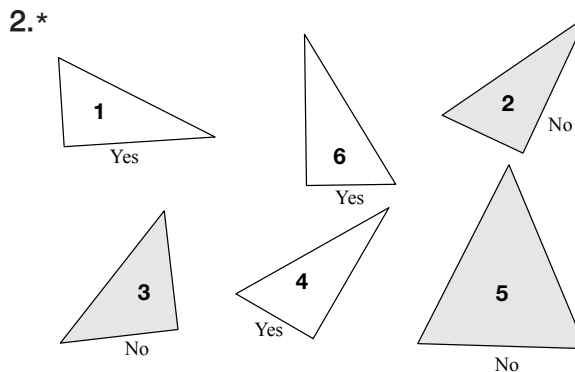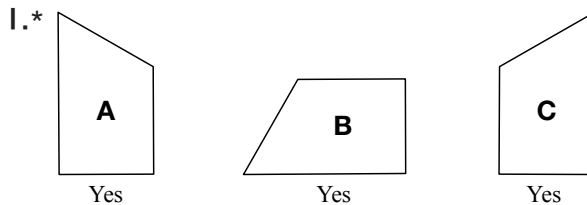**2.** Circle shapes congruent to Shape Z.

1   6   2   3   4   5

color and cut out shapes

Y   Z
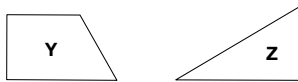
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When Are Shapes the Same? (SAB p. 433)
Questions 1–2

1.*

A — Yes   B — Yes   C — Yes

2.*

1 — Yes   6 — Yes   2 — No
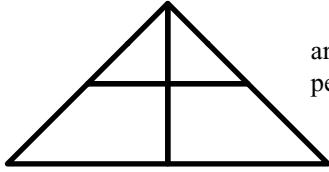
3 — No   4 — Yes   5 — No

*Answers and/or discussion are included in the lesson.

Three to Five Sides (SAB pp. 437–438)
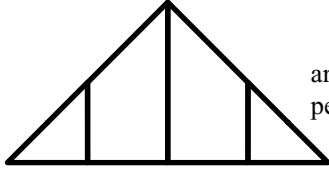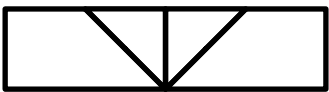**Questions 1–6**

1.

area = 4 square inches
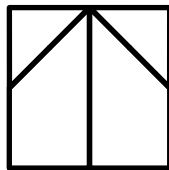perimeter = 10 inches

or

area = 4 square inches
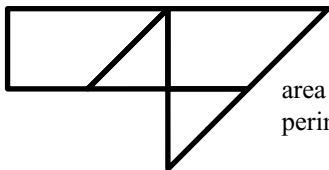perimeter = 10 inches

2.

area = 4 square inches
perimeter = 10 inches

or

area = 4 square inches
perimeter = 8 inches

3.

area = 4 square inches
perimeter = 11 inches

4. See above for area and perimeter.
5. The area is the same: 4 square inches
6. The perimeter varies from 8–11 inches

Name _____ Date _____

Three to Five Sides

🏠 **Homework**

Dear Family Member:

Students have been exploring shapes that have the same area but different perimeters. They have found the area by counting square inches and the perimeter by measuring to the nearest half inch. Solving puzzles develops problem-solving skills and the ability to recognize that shapes with the same area can have different perimeters.

Thank you.

Cut out the four puzzle pieces at the bottom of the page. Use these pieces to solve the puzzles below. Put the pieces together edge to edge. You may need to flip them.

Trace your solutions on 1-inch grid paper.

1. Make a triangle using all four puzzle pieces.
2. Make a quadrilateral (a shape with four sides) using all four puzzle pieces.
3. Make a pentagon (a shape with five sides) using all four puzzle pieces.
4. Find the area and perimeter of each puzzle made in Questions 1–3. Record the area and perimeter next to each puzzle.

- -
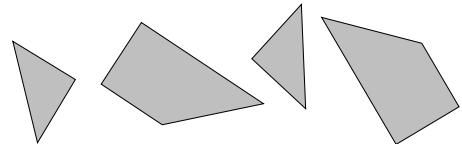
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Name _____ Date _____

5. What do you notice about the area of the three puzzles?

6. What do you notice about the perimeter of the three puzzles?

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