

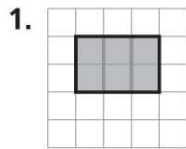
Name _____

Relate Shapes, Fractions, and Area

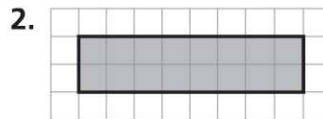
COMMON CORE STANDARD CC.3.G.2

Reason with shapes and their attributes.

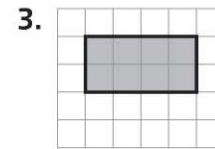
Draw lines to divide the shape into equal parts that show the fraction given.



$$\frac{1}{3}$$

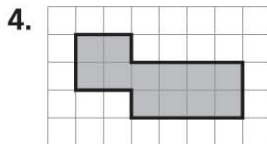


$$\frac{1}{8}$$

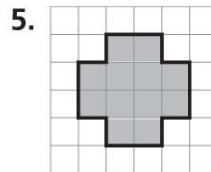


$$\frac{1}{2}$$

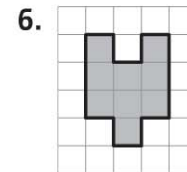
Draw lines to divide the shape into parts with equal area. Write the area of each part as a unit fraction.



4 equal parts



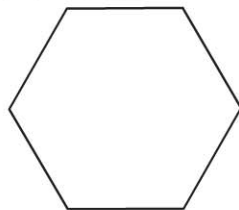
6 equal parts



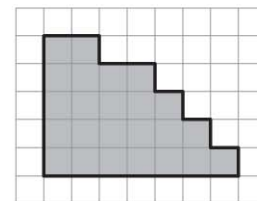
3 equal parts

Problem Solving

7. Robert divided a hexagon into 3 equal parts. Show how he might have divided the hexagon. Write the fraction that names each part of the whole you divided.

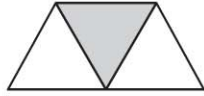


8. Show how you might divide the shape into 8 equal parts. What fraction names the area of each part of the divided shape?



Lesson Check (CC.3.G.1)

1. What fraction names each part of the divided whole?



- (A) $\frac{1}{2}$ (C) $\frac{1}{4}$
 (B) $\frac{1}{3}$ (D) $\frac{1}{6}$

2. What fraction names the whole area that was divided?



- (A) $\frac{1}{8}$ (C) $\frac{8}{8}$
 (B) $\frac{1}{2}$ (D) $\frac{8}{1}$

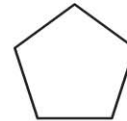
Spiral Review (CC.3.G.1)

3. Lil drew the figure below. Which word does NOT describe the shape? (Lesson 12.1)



- (A) plane shape
 (B) closed shape
 (C) open shape
 (D) curved path

4. How many line segments does this shape have? (Lesson 12.1)



- (A) 6
 (B) 5
 (C) 4
 (D) 3

Use the Venn diagram for 5–6. (Lesson 12.8)

5. Which shape would go in the section where the two circles overlap?

- (A) triangle (C) trapezoid
 (B) square (D) pentagon

6. Which shape could NOT go in the circle labeled *All Sides of Equal Length*?

- (A) square (C) triangle
 (B) rhombus (D) rectangle

