Fractions that name the same part of a whole are equivalent fractions. Question 4 shows that $\frac{6}{12}$ and $\frac{12}{24}$ are equivalent fractions.

5 Discussion Name another fraction that is equivalent to $\frac{6}{12}$ and $\frac{12}{24}$. How do you know it is equivalent?

6 Use Labsheet 3B. Use the specified pattern blocks to make different Divisions of Hexagon-Shaped Windows.

7 ✓ CHECKPOINT Pattern blocks covering part of a hexagon-shaped window (\(\square\)) are shown below.

A

B

C

D

a. What fraction of each window is covered? A: $\frac{1}{2}$, B: $\frac{1}{6}$, C: $\frac{2}{3}$, D: $\frac{3}{6}$

b. Which of the fractions in part (a) are equivalent? $\frac{1}{2}$ and $\frac{3}{6}$, $\frac{2}{3}$

8 The different window designs below are formed within the same outlined shape. Each design has a hexagon of clear glass in the center.

a. Complete the fractions that represent the part of each window that has colored panes. See below.

b. Explain why the fractions in part (a) are equivalent.

Design A

Design B

Design C

Design D

8. b. Sample Response:
Since all the outlined shapes are congruent and all the shaded regions are congruent, the fractions are equivalent.