

Center Activity Answer Key

Activity 3.25

Write the Fraction

★ Check Understanding

Check students' drawings. Possible answer: There are 4 equal parts. The fraction for the shaded part is $\frac{1}{4}$ because 1 part out of 4 is shaded.

Recording Sheet

Shaded parts will vary.

Row 1: $\frac{1}{3}, \frac{1}{6}, \frac{1}{8}$

Row 2: $\frac{1}{4}, \frac{1}{2}, \frac{1}{3}$

Row 3: $\frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

★★ Check Understanding

Check students' drawings. Possible answer: There are 6 equal parts. The fraction for the shaded part is $\frac{2}{6}$ because 2 parts out of 6 are shaded. The fraction for the non-shaded part is $\frac{4}{6}$ because 4 parts out of 6 are not shaded.

Recording Sheet

Shaded parts and fractions will vary. Check that each fraction matches the shaded part(s).

★★★ Check Understanding

Check students' drawings. Possible answer: There are 8 equal parts. The fraction for the shaded part is $\frac{5}{8}$ because 5 parts out of 8 are shaded. The fraction for the non-shaded part is $\frac{3}{8}$ because 3 parts out of 8 are not shaded.

Recording Sheet

Shaded parts and fractions will vary. Check that each fraction matches the shaded part(s).

Center Activity Answer Key

Activity 3.26

Show Fractions

★ Check Understanding

Check students' drawings. Possible answer: There are 4 equal parts. The fraction for the shaded part is $\frac{3}{4}$ because 3 parts out of 4 are shaded.

Recording Sheet

Toss 1: Shade in 5 parts each for the circle and rectangle divided into eighths.

Toss 2: Shade 1 part each for the rectangle, triangle, and circle divided into halves.

Toss 3: Shade in 3 parts each for the rectangle, circle, and square divided into fourths.

Toss 4: Shade in 4 parts each for the rectangle and circle divided into sixths.

Toss 5: Shade in 2 parts each for the circle and rectangle divided into thirds.

Toss 6: Turn ends.

★★ Check Understanding

Check students' drawings. Possible answer: There are 6 equal parts. The fraction for the shaded part is $\frac{4}{6}$ because 4 parts out of 6 are shaded.

Recording Sheet

Toss 1: Shade in 6 parts each for the rectangle and circle divided into eighths.

Toss 2: Shade 1 part each for the triangle and circle divided into halves.

Toss 3: Shade in 2 parts each for the circle and rectangle divided into thirds.

Toss 4: Shade in 5 parts each for the rectangle, hexagon, and circle divided into sixths.

Toss 5: Shade in 3 parts each for the rectangle, square, and circle divided into fourths.

Toss 6: Turn ends.

★★★ Check Understanding

Check students' drawings. Possible answer: There are 8 equal parts. The fraction for the shaded part is $\frac{6}{8}$ because 6 parts out of 8 are shaded.

Recording Sheet

Toss 1: Shade in 7 parts each for the rectangle and circle divided into eighths.

Toss 2: Shade 2 parts each for the square and circle divided into halves.

Toss 3: Shade in 2 parts each for the circle, rectangle, and triangle divided into thirds.

Toss 4: Shade in 4 parts each for the circle and hexagon divided into sixths.

Toss 5: Shade in 3 parts each for the circle, square, and triangle divided into fourths.

Toss 6: Turn ends.

Center Activity Answer Key

Activity 3.29

Building Equivalent Fractions

★ Check Understanding

Possible answers: $\frac{2}{2}, \frac{3}{3}, \frac{4}{4}, \frac{6}{6}, \frac{8}{8}, \frac{1}{1}$ is the same as 1, so I need to use all parts of a fraction strip like $\frac{4}{4}$ to be equal to 1.

Recording Sheet

Row 1: $\frac{1}{2} = \frac{3}{6}$

Possible answers:

$$\frac{1}{4} = \frac{2}{8}$$

Row 2: $\frac{1}{3} = \frac{2}{6}$
 $\frac{3}{4} = \frac{6}{8}$

Row 3: $\frac{6}{3} = \frac{4}{2}, \frac{8}{4}, \frac{12}{6}, \frac{16}{8}$
 $1 = \frac{1}{1}, \frac{2}{2}, \frac{3}{3}, \frac{4}{4}, \frac{6}{6}$

★★ Check Understanding

Possible answers: $\frac{4}{2}, \frac{6}{3}, \frac{8}{4}, \frac{12}{6}, \frac{16}{8}, \frac{2}{1}$ is the same as 2, so I need to use all parts of a fraction strip two times like $\frac{8}{4}$ to be equal to 2.

Recording Sheet

Row 1: $\frac{1}{2} = \frac{4}{8}$

Possible answers:

$$\frac{1}{4} = \frac{2}{8}$$

Row 2: $\frac{1}{3} = \frac{2}{6}$
 $\frac{3}{4} = \frac{6}{8}$

Row 3: $\frac{8}{4} = \frac{4}{2}, \frac{6}{3}, \frac{12}{6}, \frac{16}{8}$
 $3 = \frac{3}{1}, \frac{6}{2}, \frac{9}{3}, \frac{12}{4}$

★★★ Check Understanding

Possible answers: $\frac{8}{2}, \frac{12}{3}, \frac{16}{4}, \frac{24}{6}, \frac{32}{8}$. To show 4 with fraction strips, I need to use all parts of a fraction strip four times like $\frac{16}{4}$.

Recording Sheet

Row 1: $\frac{1}{2} = \frac{4}{8}$

Possible answers:

$$\frac{1}{2} = \frac{3}{6}$$

Row 2: $\frac{1}{3} = \frac{2}{6}$
 $\frac{3}{4} = \frac{6}{8}$

Row 3: $\frac{6}{2} = \frac{3}{1}, \frac{9}{3}, \frac{12}{4}$
 $\frac{4}{1} = \frac{8}{2}, \frac{12}{3}, \frac{16}{4}$

Row 4: $\frac{2}{3} = \frac{4}{6}, \frac{8}{12}$
 $\frac{1}{4} = \frac{2}{8}, \frac{3}{12}$

Row 5: $\frac{4}{2} = \frac{6}{3}, \frac{12}{6}$
 $\frac{4}{6} = \frac{2}{3}, \frac{8}{12}$

Center Activity Answer Key

Activity 3.30

Comparing Fractions

★ Check Understanding

$\frac{1}{4} < \frac{2}{4}$, Possible answer: The denominators are the same, so I can compare the numerators.

Recording Sheet

Row 1: $\frac{1}{2} > \frac{1}{3}$

$$\frac{3}{4} > \frac{1}{4}$$

Row 2: $\frac{3}{8} < \frac{4}{8}$

$$\frac{1}{4} < \frac{1}{3}$$

Row 3: $\frac{2}{6} < \frac{5}{6}$

$$\frac{1}{2} = \frac{2}{4}$$

★★ Check Understanding

$\frac{3}{4} > \frac{2}{4}$, Possible answer: The denominators are the same, so I can compare the numerators.

Recording Sheet

Row 1: $\frac{1}{2} > \frac{1}{4}$

$$\frac{2}{3} > \frac{2}{8}$$

Row 2: $\frac{4}{6} > \frac{3}{6}$

$$\frac{2}{4} < \frac{2}{3}$$

Row 3: $\frac{3}{6} > \frac{3}{8}$

$$\frac{2}{4} = \frac{4}{8}$$

★★★ Check Understanding

$\frac{3}{4} < \frac{4}{5}$, Possible answer: I drew 2 number lines, one below the other, and marked each fraction. $\frac{4}{5}$ was to the right of $\frac{3}{4}$ on the number line so $\frac{4}{5}$ is greater than $\frac{3}{4}$.

Recording Sheet

Row 1: $\frac{1}{6} < \frac{1}{4}$

$$\frac{3}{6} < \frac{4}{6}$$

Row 2: $\frac{6}{8} > \frac{5}{8}$

$$\frac{3}{8} < \frac{3}{6}$$

Row 3: $\frac{6}{8} = \frac{3}{4}$

$$\frac{4}{6} > \frac{4}{8}$$