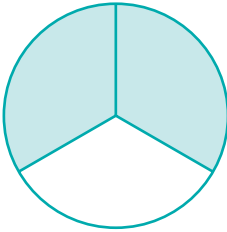


Area Models and Number Lines

NCTM Standards 1, 2, 7, 9, 10

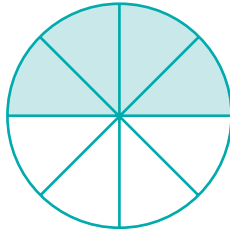
Write the fractions for the shaded shapes. The denominators must show the total number of pieces.

1



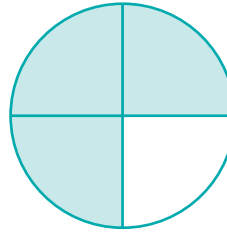
$$\frac{\square}{3}$$

2



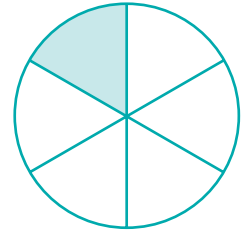
$$\frac{\square}{\square}$$

3



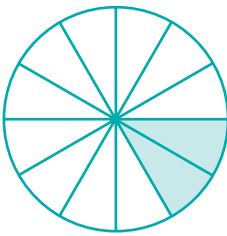
$$\frac{\square}{\square}$$

4



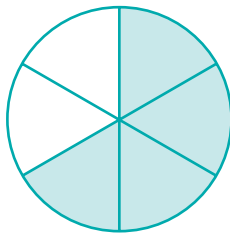
$$\frac{\square}{\square}$$

5



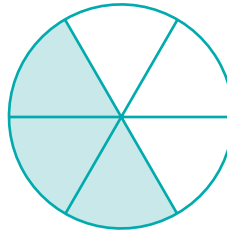
$$\frac{\square}{\square}$$

6



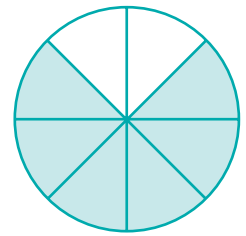
$$\frac{\square}{\square}$$

7



$$\frac{\square}{\square}$$

8



$$\frac{\square}{\square}$$

Write the fractions from Problems 1–8 as pairs of equivalent fractions.

9

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

10

$$\frac{6}{8} = \frac{\square}{\square}$$

11

$$\frac{1}{6} = \frac{\square}{\square}$$

12

$$\frac{4}{6} = \frac{\square}{\square}$$

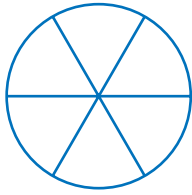
Shade the sketches for the fractions. You may need to draw lines to split up some of the pieces.

13



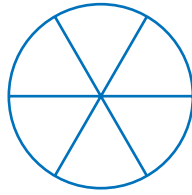
$$\frac{2}{6}$$

14



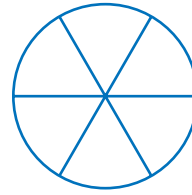
$$\frac{10}{12}$$

15



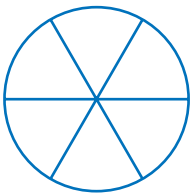
$$\frac{1}{3}$$

16



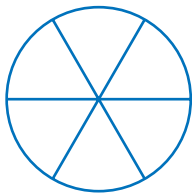
$$\frac{5}{6}$$

17



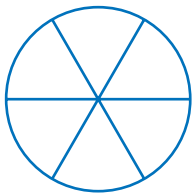
$$\frac{8}{12}$$

18



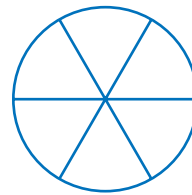
$$\frac{2}{3}$$

19



$$\frac{1}{4}$$

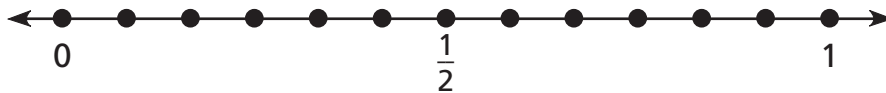
20



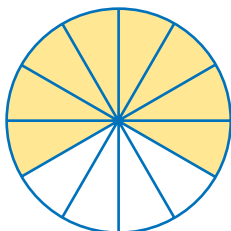
$$\frac{3}{12}$$

Write the fractions from Problems 13–20 at their locations on the number line.

21



22 Challenge Write four equivalent fractions to match the sketch.



$$\frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$$