

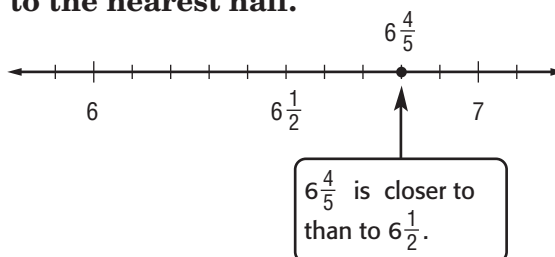
Rounding Fractions and Mixed Numbers

MAIN IDEA

- Round fractions and mixed numbers.

EXAMPLE Round to the Nearest Half

- 1 Round $6\frac{4}{5}$ to the nearest half.



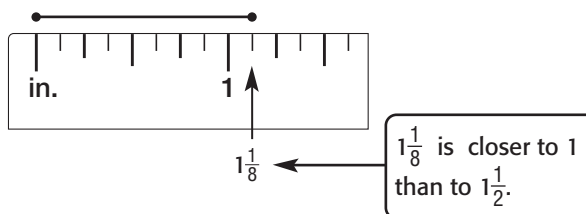
The numerator of $\frac{4}{5}$ is almost as large as the denominator.

So, $6\frac{4}{5}$ rounds to .

Check Your Progress Round $3\frac{9}{11}$ to the nearest half.

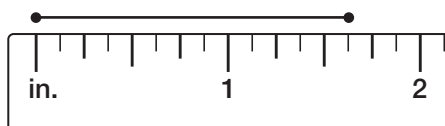
EXAMPLE Measure to the Nearest Half

- 1 Find the length of the line segment to the nearest half inch.



To the nearest half inch, the line segment is .

Check Your Progress Find the length of the segment to the nearest half inch.



REVIEW IT

Compare and contrast rounding decimals and rounding fractions. (Lesson 3-3).

EXAMPLE

1 DECORATING There is a $4\frac{3}{4}$ -foot gap between the entertainment center and a wall in a family's living room. Should the family purchase a 5-foot wide bookshelf or a $4\frac{1}{2}$ -foot wide bookshelf? Explain your reasoning.

$4\frac{3}{4}$ is less than . So, a wide bookshelf would be too large. Five feet is greater than $4\frac{3}{4}$ feet. So, in order for the bookshelf to fit, the family should round $4\frac{3}{4}$ down and buy the wide bookshelf.

WRITE IT

Write a rule for rounding fractions to the nearest $\frac{1}{4}$.

Check Your Progress

COOKING Phyllis has a recipe that calls for $3\frac{7}{8}$ cups of spaghetti sauce. Should she purchase a 4-cup jar of spaghetti sauce or a $3\frac{1}{2}$ -cup jar of spaghetti sauce for the recipe? Explain your reasoning.

HOMEWORK ASSIGNMENT

Page(s):

Exercises: