

Name \_\_\_\_\_ Date \_\_\_\_\_

# Rounding Fractions and Mixed Numbers

(pages 228–231)

The following guidelines can help you round fractions and mixed numbers to the nearest unit.

<p><b>Rounding Fractions and Mixed Numbers</b></p>	<ul style="list-style-type: none"> <li>• If the numerator is almost as large as the denominator, round the number up to the next whole number.</li> <li>• If the numerator is about half of the denominator, round the fraction to <math>\frac{1}{2}</math>.</li> <li>• If the numerator is much smaller than the denominator, round the number down to the next whole number.</li> <li>• When measuring actual quantities, you may have to round up or down, despite what the rule says, to get useful numbers.</li> </ul>
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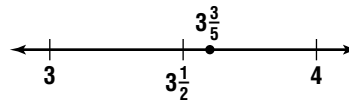
## EXAMPLES

**A** Round  $\frac{7}{8}$  to the nearest half.



The numerator is almost as large as the denominator, so round up. Since  $\frac{7}{8}$  is closer to 1 than  $\frac{1}{2}$ , round up to 1.

**B** Round  $3\frac{3}{5}$  to the nearest half.



The numerator is about half of the denominator. Round the fraction to  $\frac{1}{2}$ . So,  $3\frac{3}{5}$  rounds to  $3\frac{1}{2}$ .

## Try These Together

**Round each number to the nearest half.**

1.  $\frac{2}{5}$  *HINT: The numerator is about half of the denominator.*

2.  $5\frac{1}{8}$  *HINT: The numerator is much smaller than the denominator.*

## PRACTICE

**Round each number to the nearest half.**

3.  $1\frac{5}{8}$

4.  $\frac{7}{12}$

5.  $2\frac{3}{8}$

6.  $8\frac{9}{10}$

7.  $\frac{4}{6}$

8.  $1\frac{2}{9}$



**9. Standardized Test Practice** A hot air balloon can carry 400 pounds of cargo and people. There are four men who want to ride in the balloon. The average weight of the men is 180 pounds. Estimate how many men can ride in the balloon.

**A** 4

**B** 2

**C** 3

**D** 1

Answers: 1.  $\frac{1}{2}$  2. 5 3.  $1\frac{1}{2}$  4.  $\frac{1}{2}$  5.  $2\frac{1}{2}$  6. 9 7.  $\frac{1}{2}$  8. 1 9. B.