

# REVIEW: Mixed Numbers and Improper Fractions

Name \_\_\_\_\_

## Key Concept and Vocabulary

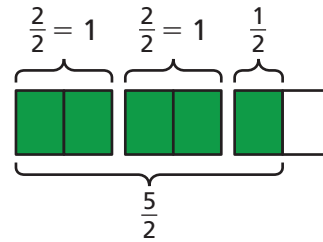
improper fraction: a fraction greater than 1

$$\frac{5}{2} = 2\frac{1}{2}$$

mixed number: represents the sum of a whole number and a proper fraction



## Visual Model



## Skill Examples

1.  $\frac{7}{3} = \frac{3}{3} + \frac{3}{3} + \frac{1}{3} = 2\frac{1}{3}$

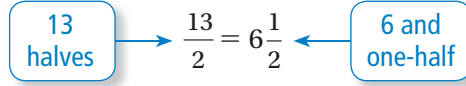
2.  $\frac{8}{4} = \frac{4}{4} + \frac{4}{4} = 2$

3.  $2\frac{1}{4} = \frac{8}{4} + \frac{1}{4} = \frac{9}{4}$

4.  $3\frac{3}{5} = \frac{15}{5} + \frac{3}{5} = \frac{18}{5}$

## Application Example

5. You fill a half-gallon container with water 13 times. How many gallons of water do you use?



••• You use  $6\frac{1}{2}$  gallons of water.

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Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Write the improper fraction as a mixed number.

6.  $\frac{4}{3} = 1\frac{1}{3}$

7.  $\frac{3}{2} = 1\frac{1}{2}$

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

9.  $\frac{9}{6} = 1\frac{1}{2}$

10.  $\frac{7}{4} = 1\frac{3}{4}$

11.  $\frac{28}{3} = 9\frac{1}{3}$

12.  $\frac{19}{4} = 4\frac{3}{4}$

13.  $\frac{11}{2} = 5\frac{1}{2}$

Write the mixed number as an improper fraction.

14.  $2\frac{2}{3} = \frac{8}{3}$

15.  $5\frac{1}{4} = \frac{21}{4}$

16.  $3\frac{2}{5} = \frac{17}{5}$

17.  $1\frac{3}{8} = \frac{11}{8}$

18. Rewrite the sentence using a mixed number: Susan drinks  $\frac{5}{4}$  quarts of milk.

Susan drinks  $1\frac{1}{4}$  quarts of milk.

19. Rewrite the sentence using an improper fraction: Tom runs for  $2\frac{1}{4}$  hours.

Tom runs for  $\frac{9}{4}$  hours.

20. **NUMBER LINE** Plot the improper fractions on the number line:  $\frac{7}{4}$ ,  $\frac{7}{2}$ , and  $\frac{19}{4}$ .

