

### More Fraction Strips

**Naming Fractions**

seven-twelfths

$\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{7}{12}$

To write the fraction shown above as a number, we write  $\frac{7}{12}$ . The 12 in the denominator shows that the whole strip is folded into 12 equal parts. The 7 in the numerator shows that we are interested in seven of the parts. We write **seven-twelfths** in words.

**Thirds, Sixths, Ninths, and Twelfths**

- A. Romesh showed the fraction to the right using his fraction strips. What fraction did he show?

B. What does the numerator of the fraction you wrote tell you?

C. What does the denominator of the fraction you wrote tell you?

$\frac{1}{3} + \frac{1}{3} = ?$

I know that  $\frac{1}{3} + \frac{1}{3}$  is the same as  $\frac{1}{3} \times 2$ .  
 $\frac{1}{3} + \frac{1}{3} = \frac{2}{3} \times 2$ .

- Jessie made the following fraction using her fraction strips. What fraction did she show? Write a number sentence to match.

- Nicholas made the following fraction using his fraction strips. What fraction did he show? Write a number sentence to match.

Whole       $\frac{1}{9}$      $\frac{1}{9}$

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- Write a fraction in numbers and words for each fraction shown below. Use *Writing Numbers in Words* in the Reference section of the *Student Guide*.

A.

B.

C.

D.

E.

F. Write a number sentence for the fraction shown in Question A.

G. Write a number sentence for the fraction shown in Question D.
- Use the strips below to write two fractions equal to  $\frac{2}{3}$ .

6. Use the strips below to write two fractions equal to  $\frac{2}{3}$ .

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Questions 1–17 (SG pp. 304–308)

- A.  $\frac{2}{3}$

B. There are 2 parts showing.

C. There are 3 equal parts in the whole.
- $\frac{9}{12}$ ;  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$  or  $\frac{1}{12} \times 9$
- $\frac{2}{9}$  or  $\frac{11}{9}$ ;  $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$  or  $\frac{1}{9} + \frac{1}{9}$  or  $11 \times \frac{1}{9}$
- A.  $\frac{3}{6}$ ; three-sixths

B.  $\frac{1}{3}$ ; one-third

C.  $\frac{6}{12}$ ; six-twelfths

D.  $\frac{6}{9}$ ; six-ninths

E.  $\frac{10}{6}$  or  $1\frac{4}{6}$ ; ten-sixths or one and four-sixths

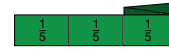
F.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$  or  $3 \times \frac{1}{6}$

G.  $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$  or  $\frac{1}{9} \times 6$
- $\frac{2}{3}$ ,  $\frac{8}{12}$
- $\frac{1}{3}$ ,  $\frac{2}{6}$

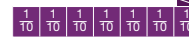
7.  $\frac{3}{5}$ ;  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$  or  $3 \times \frac{1}{5}$
8.  $\frac{7}{10}$ ;  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$  or  $\frac{1}{10} \times 7$
9.  $1\frac{4}{5}$  or  $\frac{9}{5}$
10. A.  $\frac{9}{10}$ ; nine-tenths  
 B.  $\frac{5}{10}$  or  $\frac{1}{2}$ ; five-tenths or one-half  
 C.  $\frac{1}{5}$ ; one-fifth  
 D.  $\frac{5}{5}$  or 1; five-fifths or one  
 E.  $1\frac{4}{10}$  or  $\frac{14}{10}$ ; one and four-tenths or fourteen-tenths  
 F.  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$  or  $14 \times \frac{1}{10}$
11.  $\frac{8}{10}$
12. A.  $\frac{2}{4}$ ,  $\frac{3}{6}$ ,  $\frac{4}{8}$ ,  $\frac{5}{10}$   
 B. Each of the denominators is even and, therefore, a multiple of 2.  
 13. A.  $\frac{4}{6}$ ,  $\frac{6}{9}$ ,  $\frac{8}{12}$   
 B. Each of the denominators is a multiple of 3.  
 C. Each of the numerators is even and, therefore, a multiple of 2.

**Fifths and Tenths**

7. Michael showed the following fraction. What fraction did he show? Write a number sentence to match.



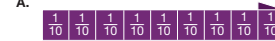
8. Roberto showed the following fraction. What fraction did he show? Write a number sentence to match.



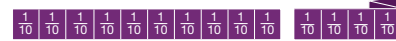
9. Lee Yah showed the following with her fraction strips. What number did she show?



10. Write a fraction in numbers and words for each fraction shown below.



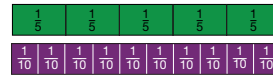
E.



F. Write a number sentence for the fraction shown in Question E.

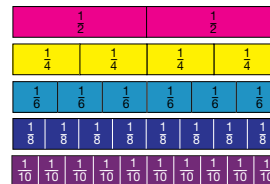
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11. Use the fraction strips below to write a fraction equal to  $\frac{4}{5}$ .

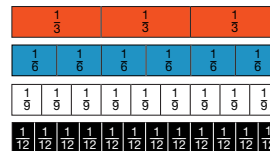


12. A. Use the fraction strips below to write four fractions equal to  $\frac{1}{2}$ .

B. What do you notice about each of the denominators?



13. A. Use the fraction strips below to write three fractions equal to  $\frac{2}{3}$ .



B. What do you notice about each of the denominators in the fractions you wrote?

C. What do you notice about each of the numerators in the fractions you wrote?

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✓ Check-In: Questions 14-17

14. Write a fraction in numbers and words to match the strips for each fraction shown below.

A.



B.

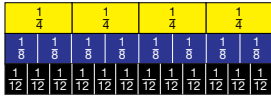


C.



- D. Write a number sentence for the fraction shown in Question A.  
E. Write a number sentence for the fraction shown in Question C.

15. Use the fraction strips below to write two fractions equal to  $\frac{3}{4}$ .



- A. What do you notice about each of the numerators in the fractions you wrote?  
B. What do you notice about each of the denominators in the fractions you wrote?

16. Which number sentences are true?

- A.  $\frac{1}{4} = \frac{3}{12}$       B.  $\frac{4}{6} = \frac{2}{3}$       C.  $\frac{6}{8} = \frac{10}{12}$   
D.  $\frac{3}{5} = \frac{6}{10}$       E.  $\frac{3}{6} = \frac{6}{12}$       F.  $\frac{2}{3} = \frac{3}{9}$   
G.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{2}{4}$       H.  $4 \times \frac{1}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$       I.  $6 \times \frac{1}{12} = \frac{4}{6}$   
J.  $\frac{1}{3} + \frac{1}{3} = \frac{2}{6}$       K.  $2 \times \frac{1}{4} = 3 \times \frac{1}{12}$       L.  $\frac{2}{5} = \frac{4}{10}$

17. Pick a false number sentence from Question 16 and make it true.

14. A.  $\frac{5}{12}$ ; five-twelfths  
B.  $\frac{1}{6}$ ; one-sixth  
C.  $1\frac{3}{8}$  or  $\frac{11}{8}$ ; one and three-eighths or eleven-eighths  
D.  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$  or  $5 \times \frac{1}{12}$   
E.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$   
or  $11 \times \frac{1}{8}$
15.  $\frac{6}{8}, \frac{9}{12}$   
A. Both of the numerators are multiples of 3.  
B. Both of the denominators are multiples of 4.
16. A, B, D, E, G, H, I, L
17. Possible answers: C:  $\frac{6}{8} = \frac{9}{12}$ ; F:  $\frac{2}{3} = \frac{6}{9}$ ;  
J:  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ ; K:  $1 \times \frac{1}{4} = 3 \times \frac{1}{12}$