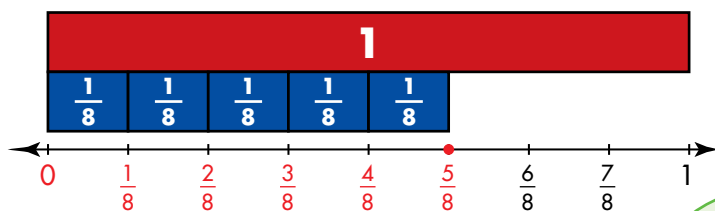


Homework & Practice 10-1

Fractions as Multiples of Unit Fractions: Use Models

Another Look!

Use fraction strips to show $\frac{5}{8}$ as a multiple of a unit fraction.



Write an equation.

$$\frac{5}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$$

$$\frac{5}{8} = 5 \times \frac{1}{8}$$

You can write any fraction as a multiple of a unit fraction.



For **1–21**, write each fraction as a multiple of a unit fraction. Use fraction strips or number lines to help.

1. $\frac{2}{4} = 2 \times \frac{\square}{4}$

2. $\frac{2}{6} = \square \times \frac{1}{6}$

3. $\frac{2}{5} = 2 \times \frac{1}{\square}$

4. $\frac{3}{3} = 3 \times \frac{1}{\square}$

5. $\frac{10}{8} = 10 \times \frac{\square}{8}$

6. $\frac{5}{2} = \square \times \frac{1}{2}$

7. $\frac{1}{6}$

8. $\frac{9}{5}$

9. $\frac{8}{3}$

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

11. $\frac{9}{12}$

12. $\frac{8}{10}$

13. $\frac{6}{3}$

14. $\frac{6}{8}$

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

16. $\frac{99}{100}$

17. $\frac{8}{12}$

18. $\frac{6}{6}$

19. $\frac{9}{8}$

20. $\frac{35}{100}$

21. $\frac{101}{100}$

22. Kevin is baking cookies. Each batch of cookies uses $\frac{1}{8}$ pound of butter. Kevin has $\frac{11}{8}$ pounds of butter. How many batches of cookies can Kevin make? Show your answer as a multiplication equation with $\frac{1}{8}$ as a factor.

23. Students are painting a mural. So far, the mural is painted $\frac{1}{4}$ blue, $\frac{2}{8}$ red, and $\frac{3}{12}$ green. Use fraction strips to determine how much of the mural has been painted. Tell the fractions you use to solve.

24. **A-Z Vocabulary** How can you tell if a fraction is a *unit fraction*?

25. **Algebra** How many $\frac{1}{6}$ parts are in $\frac{10}{6}$? Write and solve a multiplication equation with $\frac{1}{6}$ as a factor. Use p for parts.

26. **MP.7 Look for Relationships** Mari packs the same number of oranges in each bag. How many oranges does Mari need to pack 9 bags? How can you determine the number of oranges Mari needs for 13 bags?

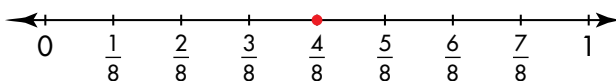
Number of Bags	3	5	7	9	11
Number of Oranges	9	15	21		33

27. **Higher Order Thinking** Katarina uses fraction strips to show how many thirds are in $\frac{4}{6}$. Is Katarina's model correct? Explain.



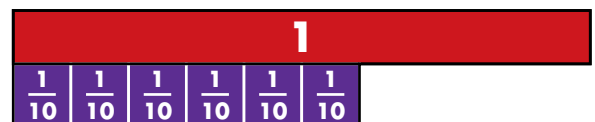
Common Core Assessment

28. Which multiplication expression describes the fraction plotted on the number line?



- (A) $\frac{5}{8} + \frac{6}{8}$
- (B) $4 \times \frac{1}{8}$
- (C) $\frac{1}{8} + \frac{2}{8} + \frac{3}{8} + \frac{4}{8}$
- (D) $4 \times \frac{4}{8}$

29. Which multiplication expression describes the fraction strips below?



- (A) $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$
- (B) $6 \times \frac{6}{10}$
- (C) $\frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10} \times \frac{1}{10}$
- (D) $6 \times \frac{1}{10}$