

Homework & Practice 8-4

Generate Equivalent Fractions: Division

Another Look!

Use division to find two fractions equivalent to $\frac{8}{12}$.

To find an equivalent fraction, divide the numerator and denominator by any common factor other than 1.

$$\frac{8}{12} \div \frac{2}{2} = \frac{4}{6} \quad \frac{8}{12} \div \frac{4}{4} = \frac{2}{3}$$

$\frac{8}{12}$, $\frac{4}{6}$, and $\frac{2}{3}$ are equivalent fractions.



For **1–8**, divide to find equivalent fractions.

1. $\frac{5}{10} \div \frac{5}{5} = \frac{\square}{\square}$

2. $\frac{2}{12} \div \frac{2}{2} = \frac{\square}{\square}$

3. $\frac{12}{6} \div \frac{3}{3} = \frac{\square}{\square}$

4. $\frac{40}{100} \div \frac{10}{10} = \frac{\square}{\square}$

5. $\frac{25}{100} \div \frac{\square}{\square} = \frac{\square}{4}$

6. $\frac{8}{12} \div \frac{\square}{\square} = \frac{2}{\square}$

7. $\frac{70}{100} \div \frac{\square}{\square} = \frac{7}{\square}$

8. $\frac{18}{10} \div \frac{\square}{\square} = \frac{9}{\square}$

For **9–16**, find an equivalent fraction for each given fraction.

9. $\frac{75}{100}$

10. $\frac{4}{10}$

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

12. $\frac{200}{100}$

13. $\frac{24}{100}$

14. $\frac{60}{12}$

15. $\frac{84}{100}$

16. $\frac{70}{10}$

For **17–24**, divide to find two equivalent fractions.

17. $\frac{500}{100}$

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

19. $\frac{30}{10}$

20. $\frac{60}{100}$

21. $\frac{50}{10}$

22. $\frac{6}{12}$

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

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

25. What fraction of the game spinner is red?
Write two equivalent fractions.



26. Solve this number riddle:
I am an odd number.
I am less than 100.
The sum of my digits is 12.
I am a multiple of 15.
What number am I?

27. It took Bob 55 minutes to clean the garage. How many seconds did it take Bob? There are 60 seconds in one minute.

28. Betty is canning 104 pears and 126 apples separately. Each jar holds 8 pears or 6 apples. How many jars does Betty need?

29. **MP.3 Critique Reasoning** Laurie says summer is $\frac{1}{4}$ of the year. Maria says summer is $\frac{3}{12}$ of the year. Who is correct? Explain.

30. **Higher Order Thinking** Cindy is using division to write a fraction equivalent to $\frac{30}{100}$. She tried to divide the numerator and denominator by 3. She got stuck. What advice would you give her?

Common Core Assessment

31. Which equation is **NOT** true?

- (A) $\frac{10}{12} = \frac{5}{6}$
- (B) $\frac{69}{100} = \frac{6}{10}$
- (C) $\frac{10}{5} = \frac{200}{100}$
- (D) $\frac{12}{4} = \frac{6}{2}$

32. There are 100 pieces of fruit in a basket. Twelve of the pieces are apples. Which shows the fraction of the fruit that are apples?

- (A) $\frac{12}{12}$
- (B) $\frac{12}{100}$
- (C) $\frac{100}{12}$
- (D) $\frac{100}{100}$