

Equivalent Fractions

Use multiplication to find an equivalent fraction:

$$\frac{3}{7} \times \frac{4}{4} = \frac{12}{28}$$

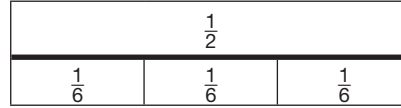
$$\frac{3}{7} = \frac{12}{28}$$

Use division to find an equivalent fraction.

$$\frac{10}{12} \div \frac{2}{2} = \frac{10 \div 2}{12 \div 2} = \frac{5}{6}$$

$$\frac{10}{12} = \frac{5}{6}$$

Equivalent fractions name the same amount.



$$\frac{1}{2} = \frac{3}{6}$$

Use multiplication to find an equivalent fraction.

1. $\frac{3}{8}$ _____ 2. $\frac{1}{3}$ _____ 3. $\frac{4}{7}$ _____

4. $\frac{1}{2}$ _____ 5. $\frac{5}{9}$ _____ 6. $\frac{3}{10}$ _____

7. $\frac{8}{11}$ _____ 8. $\frac{7}{16}$ _____ 9. $\frac{11}{12}$ _____

Use division to find an equivalent fraction.

10. $\frac{15}{20}$ _____ 11. $\frac{4}{18}$ _____ 12. $\frac{15}{60}$ _____

13. $\frac{32}{40}$ _____ 14. $\frac{80}{100}$ _____ 15. $\frac{35}{45}$ _____

16. $\frac{15}{75}$ _____ 17. $\frac{32}{48}$ _____ 18. $\frac{18}{32}$ _____

Find two equivalent fractions for each given fraction.

19. $\frac{3}{6}$ _____ 20. $\frac{3}{9}$ _____ 21. $\frac{10}{12}$ _____

22. $\frac{75}{100}$ _____ 23. $\frac{1}{2}$ _____ 24. $\frac{7}{12}$ _____

25. $\frac{6}{8}$ _____ 26. $\frac{20}{24}$ _____ 27. $\frac{1}{8}$ _____

28. Why do you have to multiply or divide both the numerator and denominator of a fraction to find an equivalent fraction?

Name _____

Equivalent Fractions

Find two fractions equivalent to each fraction.

1. $\frac{5}{6}$ _____

2. $\frac{10}{20}$ _____

3. $\frac{45}{60}$ _____

4. $\frac{28}{32}$ _____

5. $\frac{20}{8}$ _____

6. $\frac{16}{32}$ _____

7. $\frac{36}{60}$ _____

8. $\frac{16}{48}$ _____

9. $\frac{2}{3}$ _____

10. Are the fractions $\frac{1}{5}$, $\frac{5}{5}$, and $\frac{5}{1}$ equivalent? Explain.

11. The United States currently has 50 states. What fraction of the states had become a part of the United States by 1795? Write your answer as two equivalent fractions.

Number of States in the United States

Year	Number of States
1795	15
1848	30
1900	45
1915	48
1960	50

12. In what year was the total number of states in the United States $\frac{3}{5}$ the number it was in 1960?

13. Which of the following pairs of fractions are equivalent?

A $\frac{1}{10}, \frac{3}{33}$

B $\frac{9}{5}, \frac{5}{9}$

C $\frac{5}{45}, \frac{1}{9}$

D $\frac{6}{8}, \frac{34}{48}$

14. In what situation can you use only multiplication to find equivalent fractions to a given fraction? Give an example.
