

Write Equivalent Fractions

Suppose you did not have an equivalent fraction table. How would you find equivalent fractions?

$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

To find equivalent fractions, multiply the numerator and the denominator by the same number.

$$\frac{3}{4} = \frac{n}{8}$$

Think

$$4 \times 2 = 8$$

$$\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$$

$$\text{So } \frac{3}{4} = \frac{6}{8}.$$

These are equivalent fractions.

Study these examples.

$$\frac{1}{3} = \frac{a}{9}$$

Think

$$3 \times 3 = 9$$

$$\frac{1 \times 3}{3 \times 3} = \frac{3}{9}$$

$$\text{So } \frac{1}{3} = \frac{3}{9}.$$

$$\frac{3}{5} = \frac{12}{n}$$

Think

$$3 \times 4 = 12$$

$$\frac{3 \times 4}{5 \times 4} = \frac{12}{20}$$

$$\text{So } \frac{3}{5} = \frac{12}{20}.$$

Write the equivalent fraction.

1. $\frac{1 \times 2}{3 \times 2} = \frac{?}{?}$

2. $\frac{5 \times 3}{6 \times 3} = \frac{?}{?}$

3. $\frac{2 \times 2}{5 \times 2} = \frac{?}{?}$

4. $\frac{3 \times 4}{4 \times 4} = \frac{?}{?}$

5. $\frac{1 \times 3}{8 \times 3} = \frac{?}{?}$

6. $\frac{3 \times 2}{10 \times 2} = \frac{?}{?}$

7. $\frac{1 \times 3}{7 \times ?} = \frac{3}{?}$

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

9. $\frac{2 \times 4}{3 \times ?} = \frac{?}{?}$

10. $\frac{1 \times 5}{4 \times ?} = \frac{?}{?}$

11. $\frac{5 \times ?}{7 \times 2} = \frac{?}{?}$

12. $\frac{2 \times ?}{9 \times 2} = \frac{?}{?}$

Find an equivalent fraction.

13. $\frac{3}{4} = \frac{n}{12}$

14. $\frac{4}{5} = \frac{x}{10}$

15. $\frac{1}{12} = \frac{a}{36}$

16. $\frac{1}{2} = \frac{b}{10}$

17. $\frac{5}{6} = \frac{c}{12}$

18. $\frac{3}{8} = \frac{s}{24}$

19. $\frac{5}{9} = \frac{t}{27}$

20. $\frac{1}{4} = \frac{w}{16}$

21. $\frac{3}{7} = \frac{d}{14}$

22. $\frac{2}{5} = \frac{r}{25}$

23. $\frac{2}{3} = \frac{f}{18}$

24. $\frac{6}{10} = \frac{m}{20}$

25. $\frac{1}{6} = \frac{z}{30}$

26. $\frac{5}{8} = \frac{f}{40}$

27. $\frac{2}{4} = \frac{y}{12}$

Find the missing numerator or denominator.

28. $\frac{3}{5} = \frac{n}{20}$

29. $\frac{a}{7} = \frac{12}{21}$

30. $\frac{2}{6} = \frac{8}{x}$

31. $\frac{6}{b} = \frac{42}{63}$

32. $\frac{d}{11} = \frac{4}{22}$

33. $\frac{7}{y} = \frac{28}{40}$

34. $\frac{4}{4} = \frac{12}{f}$

35. $\frac{s}{9} = \frac{12}{36}$

36. $\frac{5}{m} = \frac{15}{18}$

37. $\frac{6}{8} = \frac{36}{p}$

38. $\frac{r}{9} = \frac{21}{27}$

39. $\frac{4}{v} = \frac{48}{96}$

Write two equivalent fractions for each.

40. $\frac{2}{3}$

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

42. $\frac{1}{11}$

43. $\frac{4}{5}$

44. $\frac{3}{15}$

45. $\frac{5}{6}$

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

47. $\frac{7}{9}$

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

49. $\frac{2}{16}$

50. $\frac{4}{25}$

51. $\frac{2}{18}$

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

53. $\frac{3}{10}$

54. $\frac{3}{4}$

55. $\frac{7}{12}$

56. $\frac{2}{2}$

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

DO YOU REMEMBER?**Algebra**

Find the product or the missing factor.

58.
$$\begin{array}{r} n \\ \times 1 \\ \hline 48 \end{array}$$

59.
$$\begin{array}{r} 24 \\ \times 2 \\ \hline a \end{array}$$

60.
$$\begin{array}{r} 16 \\ \times c \\ \hline 48 \end{array}$$

61.
$$\begin{array}{r} r \\ \times 4 \\ \hline 48 \end{array}$$

62.
$$\begin{array}{r} 8 \\ \times 6 \\ \hline y \end{array}$$

63. $6 \times n = 24$

64. $b \times 3 = 24$

65. $2 \times a = 24$