

RECIPROCAL

REMEMBER:

First, write each number as a fraction. Then reverse the positions of numerator and denominator.

EXAMPLE

Write the reciprocals of $\frac{2}{3}$, 6, and $5\frac{1}{2}$.

First, write each number as a fraction.

$$\frac{2}{3} \quad 6 \quad \frac{11}{2}$$

Now, reverse the numerator and the denominator.

$$\frac{3}{2} \quad \frac{1}{6} \quad \frac{2}{11}$$

Find the reciprocal of each number.

1. $\frac{1}{4} =$ _____

2. $\frac{2}{5} =$ _____

3. $\frac{3}{8} =$ _____

4. $\frac{9}{5} =$ _____

5. $\frac{7}{9} =$ _____

6. $\frac{6}{11} =$ _____

7. $\frac{7}{13} =$ _____

8. $9 =$ _____

9. $4 =$ _____

10. $13 =$ _____

11. $22 =$ _____

12. $1 =$ _____

13. $18 =$ _____

14. $51 =$ _____

15. $2\frac{1}{2} =$ _____

16. $1\frac{1}{3} =$ _____

17. $3\frac{2}{3} =$ _____

18. $5\frac{4}{5} =$ _____

19. $8\frac{1}{7} =$ _____

20. $16\frac{2}{5} =$ _____

21. $13\frac{2}{3} =$ _____

22. $\frac{3}{5} =$ _____

23. $7 =$ _____

24. $2\frac{2}{3} =$ _____

25. $\frac{1}{8} =$ _____

26. $19 =$ _____

27. $4\frac{1}{5} =$ _____

28. $\frac{9}{2} =$ _____

29. $6 =$ _____

30. $19\frac{1}{2} =$ _____

31. $\frac{6}{7} =$ _____

32. $15 =$ _____

33. $13\frac{1}{5} =$ _____

34. $\frac{9}{10} =$ _____

35. $28 =$ _____

36. $8\frac{1}{3} =$ _____

37. $\frac{1}{6} =$ _____

38. $92 =$ _____

39. $9\frac{1}{3} =$ _____

40. $\frac{7}{15} =$ _____

41. $29 =$ _____

42. $11\frac{1}{5} =$ _____

43. $\frac{9}{4} =$ _____

44. $2\frac{3}{7} =$ _____

45. $19 =$ _____

46. $6\frac{4}{7} =$ _____

47. $\frac{20}{3} =$ _____

48. $8\frac{5}{6} =$ _____

49. $33 =$ _____

50. $9\frac{1}{6} =$ _____

51. $\frac{6}{19} =$ _____

52. $6\frac{13}{23} =$ _____

53. $100 =$ _____

54. $8\frac{2}{5} =$ _____

55. $\frac{7}{16} =$ _____

56. It took Janice $9\frac{1}{2}$ days to paint her grandmother's house. About what fraction of the job did she do each day? (Hint: Find the reciprocal of $9\frac{1}{2}$.)

Answer: _____

57. Sammy can run once around a track in $2\frac{1}{2}$ minutes. What fraction of a lap can he run in 1 minute?

Answer: _____

DIVIDING FRACTIONS

REMEMBER: First, change the divisor to its reciprocal. Then multiply.

EXAMPLES $\frac{3}{5} \div \frac{7}{8}$

$$\frac{5}{9} \div \frac{11}{27}$$

$$\frac{3}{5} \times \frac{8}{7} = \frac{24}{35}$$

$$\frac{5}{9} \times \frac{27}{11} = \frac{15}{11} = 1\frac{4}{11}$$

Divide. Simplify your answer.

1. $\frac{1}{4} \div \frac{3}{5} = \underline{\hspace{2cm}}$

2. $\frac{3}{5} \div \frac{4}{9} = \underline{\hspace{2cm}}$

3. $\frac{4}{7} \div \frac{7}{8} = \underline{\hspace{2cm}}$

4. $\frac{3}{8} \div \frac{1}{3} = \underline{\hspace{2cm}}$

5. $\frac{2}{5} \div \frac{3}{7} = \underline{\hspace{2cm}}$

6. $\frac{5}{9} \div \frac{3}{10} = \underline{\hspace{2cm}}$

7. $\frac{4}{9} \div \frac{3}{4} = \underline{\hspace{2cm}}$

8. $\frac{7}{12} \div \frac{4}{5} = \underline{\hspace{2cm}}$

9. $\frac{3}{4} \div \frac{1}{8} = \underline{\hspace{2cm}}$

10. $\frac{5}{9} \div \frac{2}{3} = \underline{\hspace{2cm}}$

11. $\frac{3}{4} \div \frac{3}{4} = \underline{\hspace{2cm}}$

12. $\frac{8}{9} \div \frac{4}{5} = \underline{\hspace{2cm}}$

13. $\frac{5}{8} \div \frac{1}{2} = \underline{\hspace{2cm}}$

14. $\frac{9}{13} \div \frac{3}{5} = \underline{\hspace{2cm}}$

15. $\frac{4}{5} \div \frac{6}{7} = \underline{\hspace{2cm}}$

16. $\frac{5}{8} \div \frac{1}{4} = \underline{\hspace{2cm}}$

17. $\frac{9}{10} \div \frac{3}{5} = \underline{\hspace{2cm}}$

18. $\frac{9}{16} \div \frac{3}{4} = \underline{\hspace{2cm}}$

19. $\frac{6}{7} \div \frac{9}{14} = \underline{\hspace{2cm}}$

20. $\frac{9}{11} \div \frac{15}{22} = \underline{\hspace{2cm}}$

21. $\frac{21}{25} \div \frac{14}{15} = \underline{\hspace{2cm}}$

22. $\frac{18}{35} \div \frac{3}{10} = \underline{\hspace{2cm}}$

23. $\frac{22}{25} \div \frac{33}{35} = \underline{\hspace{2cm}}$

24. $\frac{9}{16} \div \frac{5}{12} = \underline{\hspace{2cm}}$

25. Mary Ellen has $\frac{3}{10}$ acre for her garden. She needs $\frac{1}{20}$ acre for each vegetable that she plants. How many vegetables can she plant?

Answer: _____