

Reciprocals

Name _____

Date _____

Find the reciprocal.

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

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$\frac{1}{9}$ is the reciprocal of 9.

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

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$\frac{3}{2}$ is the reciprocal of $\frac{2}{3}$.

$$1\frac{1}{4} = \frac{5}{4} \quad \frac{5}{4} \times \frac{4}{5} = 1$$

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$\frac{4}{5}$ is the reciprocal of $1\frac{1}{4}$.

Write the missing reciprocal in each statement.

1. $8 \times \underline{\hspace{1cm}} = 1$ 2. $3 \times \underline{\hspace{1cm}} = 1$ 3. $\frac{1}{2} \times \underline{\hspace{1cm}} = 1$ 4. $\frac{1}{5} \times \underline{\hspace{1cm}} = 1$

5. $\frac{7}{8} \times \underline{\hspace{1cm}} = 1$ 6. $\frac{4}{5} \times \underline{\hspace{1cm}} = 1$ 7. $1\frac{1}{2} \times \underline{\hspace{1cm}} = 1$ 8. $2\frac{1}{4} \times \underline{\hspace{1cm}} = 1$

Are the numbers reciprocals? Write Yes or No.

9. 12, $\frac{1}{12}$ _____ 10. $\frac{1}{3}$, $\frac{2}{6}$ _____ 11. $\frac{4}{9}$, $\frac{9}{4}$ _____ 12. $\frac{5}{8}$, $\frac{8}{5}$ _____
 13. $\frac{1}{10}$, 10 _____ 14. $2\frac{1}{5}$, $\frac{5}{11}$ _____ 15. $3\frac{1}{2}$, $\frac{2}{5}$ _____ 16. $1\frac{7}{8}$, $\frac{8}{15}$ _____

Write the reciprocal of each number.

17. 1 _____ 18. 20 _____ 19. $\frac{1}{3}$ _____ 20. $\frac{1}{8}$ _____
 21. $\frac{9}{10}$ _____ 22. $\frac{7}{12}$ _____ 23. $\frac{10}{3}$ _____ 24. $\frac{9}{5}$ _____
 25. $\frac{14}{9}$ _____ 26. $1\frac{1}{6}$ _____ 27. $2\frac{3}{4}$ _____ 28. $3\frac{1}{5}$ _____

Problem Solving Use the numbers in the box.

$\frac{1}{3}$	$\frac{5}{2}$	$\frac{9}{4}$	$\frac{7}{10}$
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29. Write the fractions that are less than 1. Then write their reciprocals.

 30. Write the fractions that are greater than 1. Then write their reciprocals.

 31. What number times $\frac{5}{16}$ equals 1?

 32. What number times 100 equals 1?

 33. Use the numbers 7 and 11 to write a multiplication sentence with a product of 1.
