MathVine - Pre-Algebra Name_____

Finding the Reciprocal Date_____ Period_____

Find the reciprocal.

1) $\frac{7}{6}$

2) 9

3) $\frac{3}{5}$

4) $\frac{4}{7}$

5) 6

6) $\frac{1}{7}$

7) $\frac{4}{3}$

8) $\frac{1}{6}$

9) $\frac{1}{8}$

Finding the Reciprocal Date_____ Period_____

Find the reciprocal.

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Answer: $\frac{6}{7}$

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Answer: $\frac{7}{1}$

7) $\frac{4}{3}$

Answer: $\frac{3}{4}$

8) $\frac{1}{6}$

Answer: $\frac{6}{1}$

9) $\frac{1}{8}$

Answer: $\frac{8}{1}$

Finding the Reciprocal Date_____ Period_____

Solution Steps

1) $\frac{7}{6}$

$\frac{7}{6} * \frac{6}{7} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{7}{6}$ is $\frac{6}{7}$

2) 9

$9 * \frac{1}{9} = 1$

Therefore the reciprocal (multiplicative inverse) of 9 is $\frac{1}{9}$

3) $\frac{3}{5}$

$\frac{3}{5} * \frac{5}{3} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{3}{5}$ is $\frac{5}{3}$

4) $\frac{4}{7}$

$\frac{4}{7} * \frac{7}{4} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{4}{7}$ is $\frac{7}{4}$

5) 6

$6 * \frac{1}{6} = 1$

Therefore the reciprocal (multiplicative inverse) of 6 is $\frac{1}{6}$

6) $\frac{1}{7}$

$\frac{1}{7} * \frac{7}{1} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{1}{7}$ is $\frac{7}{1}$

7) $\frac{4}{3}$

$\frac{4}{3} * \frac{3}{4} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{4}{3}$ is $\frac{3}{4}$

8) $\frac{1}{6}$

$\frac{1}{6} * \frac{6}{1} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{1}{6}$ is $\frac{6}{1}$

9) $\frac{1}{8}$

$\frac{1}{8} * \frac{8}{1} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{1}{8}$ is $\frac{8}{1}$