Finding the Reciprocal

Find the reciprocal.

1) $\frac{4}{5}$

2) $\frac{1}{2}$

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

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

5) $\frac{7}{8}$

6) 6

7) 5

8) $\frac{5}{9}$

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

Finding the Reciprocal

Date_____Period____

Find the reciprocal.

1) $\frac{4}{5}$

Answer: $\frac{5}{4}$

2) $\frac{1}{2}$

Answer: $\frac{2}{1}$

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

Answer: $\frac{4}{7}$

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

Answer: $\frac{7}{3}$

5) $\frac{7}{8}$

Answer: $\frac{8}{7}$

6) 6

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

7) 5

Answer: $\frac{1}{5}$

8) $\frac{5}{9}$

Answer: $\frac{9}{5}$

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

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

Solution Steps

1)
$$\frac{4}{5}$$
 $\frac{4}{5} * \frac{5}{4} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{4}{5}$ is $\frac{5}{4}$

4)
$$\frac{3}{7}$$
 $\frac{3}{7} * \frac{7}{3} = 1$

Therefore the reciprocal 3 (multiplicative inverse) of $\frac{7}{7}$ is $\frac{7}{3}$

7)
$$\frac{5}{1}$$
 $5*\frac{1}{5}=1$

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

2)
$$\frac{1}{2}$$
 $\frac{1}{2} * \frac{1}{1} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{1}{2}$ is $\frac{2}{1}$

5)
$$\frac{7}{8}$$
 $\frac{7}{8} * \frac{8}{7} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{8}{8}$ is $\frac{8}{7}$

8)
$$\frac{5}{9}$$
 $\frac{5}{9} * \frac{5}{5} = 1$

Therefore the reciprocal (multiplicative inverse) of $\frac{5}{9}$ is $\frac{9}{5}$

3)
$$\frac{7}{4}$$
 $\frac{7}{4} * \frac{4}{7} = 1$

Therefore the reciprocal $\frac{7}{4}$ (multiplicative inverse) of $\frac{4}{5}$ is $\frac{7}{7}$

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

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

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

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