Finding the Reciprocal

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

Find the reciprocal.

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

Answer: \( \frac{6}{7} \)

2) 9

Answer: \( \frac{1}{9} \)

3) \( \frac{3}{5} \)

Answer: \( \frac{5}{3} \)

4) \( \frac{4}{7} \)

Answer: \( \frac{7}{4} \)

5) 6

Answer: \( \frac{1}{6} \)

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

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) \( \frac{7}{6} \)
\( \frac{7}{6} \times \frac{6}{7} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{7}{6} \) is \( \frac{6}{7} \)

2) \( \frac{1}{9} \)
\( 9 \times \frac{1}{9} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( 9 \) is \( \frac{1}{9} \)

3) \( \frac{3}{5} \)
\( \frac{3}{5} \times \frac{5}{3} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{3}{5} \) is \( \frac{5}{3} \)

4) \( \frac{4}{7} \)
\( \frac{4}{7} \times \frac{7}{4} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{4}{7} \) is \( \frac{7}{4} \)

5) \( \frac{1}{6} \)
\( 6 \times \frac{1}{6} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( 6 \) is \( \frac{1}{6} \)

6) \( \frac{1}{7} \)
\( \frac{1}{7} \times \frac{7}{1} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{1}{7} \) is \( \frac{7}{1} \)

7) \( \frac{4}{3} \)
\( \frac{4}{3} \times \frac{3}{4} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{4}{3} \) is \( \frac{3}{4} \)

8) \( \frac{1}{6} \)
\( 6 \times \frac{1}{6} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{1}{6} \) is \( \frac{6}{1} \)

9) \( \frac{1}{8} \)
\( 8 \times \frac{1}{8} = 1 \)
Therefore the reciprocal (multiplicative inverse) of \( \frac{1}{8} \) is \( \frac{8}{1} \)