

Finding the Reciprocal

Find the reciprocal.

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

2) 8

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

4) $\frac{1}{3}$

5) $\frac{2}{5}$

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

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

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

9) 2

Finding the Reciprocal

Date _____ Period _____

Find the reciprocal.

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

Answer: $\frac{4}{1}$

2) 8

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

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

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

4) $\frac{1}{3}$

Answer: $\frac{3}{1}$

5) $\frac{2}{5}$

Answer: $\frac{5}{2}$

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

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

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

Answer: $\frac{8}{9}$

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

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

9) 2

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

Solution Steps

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

Therefore the reciprocal
(multiplicative inverse) of $\frac{1}{4}$
is $\frac{4}{1}$

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

Therefore the reciprocal
(multiplicative inverse) of $\frac{1}{3}$
is $\frac{3}{1}$

$$7) \frac{9}{8} \\ \frac{9}{8} * \frac{8}{9} = 1$$

Therefore the reciprocal
(multiplicative inverse) of $\frac{9}{8}$
is $\frac{8}{9}$

$$2) \frac{8}{1} \\ 8 * \frac{1}{8} = 1$$

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

$$5) \frac{2}{5} \\ \frac{2}{5} * \frac{5}{2} = 1$$

Therefore the reciprocal
(multiplicative inverse) of $\frac{2}{5}$
is $\frac{5}{2}$

$$8) \frac{4}{3} \\ \frac{4}{3} * \frac{3}{4} = 1$$

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

$$3) \frac{9}{5} \\ \frac{9}{5} * \frac{5}{9} = 1$$

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

$$6) \frac{7}{8} \\ \frac{7}{8} * \frac{8}{7} = 1$$

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

$$9) \frac{2}{1} \\ 2 * \frac{1}{2} = 1$$

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