Reciprocals

A reciprocal is the **inverse** of a number.

A number times its reciprocal always equals 1.
Example: $\frac{4}{5} \times \frac{5}{4} = \frac{20}{20} = 1$

For fractions, just flip the numerator and denominator.

Fraction: $\frac{2}{3}$ Reciprocal: $\frac{3}{2}$

For whole numbers and mixed numbers, first turn them into an improper fraction. Then flip the numerator and denominator.

Whole Number: $4 = \frac{4}{1}$ Reciprocal: $\frac{1}{4}$

Mixed Number: $5\frac{2}{3} = \frac{5\times3+2}{3} = \frac{17}{2}$ Reciprocal: $\frac{2}{17}$

What is the reciprocal of each number?

	Reciprocal		Reciprocal
1. $\frac{8}{11}$	_____	2. $\frac{5}{8}$	_____
3. $\frac{7}{9}$	_____	4. $\frac{4}{5}$	_____
5. $8 =$ —	_____	6. $12 =$ —	_____
7. $2\frac{1}{5} =$ —	_____	8. $1\frac{2}{3} =$ —	_____
9. $5\frac{3}{11} =$ —	_____	10. $6\frac{1}{2} =$ —	_____