Instead of dividing by the

coefficient...multiply by

the reciprocal.

FRACTIONAL COEFFICIENTS AND SOLUTIONS

Sometimes you will have a fractional coefficient. (A coefficient is the number multiplied by the variable.) Sometimes your answers will be a fraction as well. Leave your answers as fractions.

What can you

multiply $\frac{2}{5}$ by that

Examples...

1.
$$\frac{2}{5}x = 20$$
 0

$$\frac{1}{2} * \frac{2}{8} x = 20 * \frac{5}{2}$$

$$\frac{5}{2} * \frac{2}{5} x = \frac{10}{20} * \frac{5}{2}$$

Cross-cancel if possible.

$$x = 50$$

2.
$$5x = 52$$

 $\frac{5x}{5} = \frac{52}{5}$
 $x = \frac{52}{5} = 10\frac{2}{5}$

Divide both sides by 5.

Reduce if possible. Improper fractions do NOT HAVE to be changed to mixed numbers.

Practice.

