Lesson 5.6

Using Multiplicative Inverses to Solve Equations

Goal: to use reciprocals to solve equations involving fractions.

Solve: $\frac{4x}{3} = 10.3$ $\frac{4x}{3} = \frac{30}{4} \times = \frac{15}{2} \quad \frac{7}{2}$ Write the original problem in another way to solve. $\frac{34x}{4} = \frac{15}{2} = \frac{15}{2} = \frac{7}{2}$

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One way to solve equations with fractions is to multiply both sides of the equation by the multiplicative inverse.

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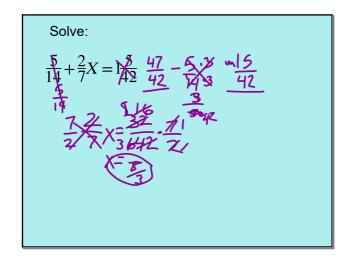
Solve
$$\frac{2}{2}x = \frac{18}{1} \cdot \frac{3}{2}$$
, $\frac{3}{2}$

Solve: $\frac{5}{5}m = \frac{20.6}{8}$ $m = \frac{24}{24}$ $\frac{7}{8}x = \frac{56.8}{-71}$ $x = \frac{64}{-1} = -64$

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Solve: $\frac{13}{16} = \frac{3}{8}g + \frac{1}{2}$ $\frac{13}{16} = \frac{3}{16}g + \frac{1}{2}g + \frac{1}{2}g$

Solve: $4 = \frac{3}{5}x = 16$ $-4 = \frac{5}{5}x = \frac{14}{1} = \frac{5}{3}$ x = -20



There are currently 1680 students at Fairview High School. So far this year, an average of $3\frac{1}{3}$ new students have enrolled at the school each week. The school has a maximum capacity of 1750 students. If this growth rate continues, in how many weeks will the school reach its maximum capacity?

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