Section Overview

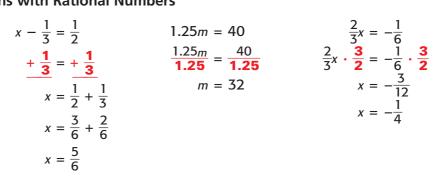


Lesson 2-7

Algebra with Rational Numbers

Why?) Most real-world applications involve rational numbers.

Solving Equations with Rational Numbers



Two-Step Equations

Why?) You can solve some problems by using two-step equations.

Jill's auto repair bill was \$225.

The parts cost \$95 and the labor cost \$52 per hour. For how many hours of labor was Jill charged?

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Solve
total bill = parts + labor
\begin{array}{rrrr} 225 &=& 95 + 52h \\ - 95 & & -95 \\ \hline 130 &=& 52h \\ \hline \frac{130}{52} &=& \frac{52h}{52} \\ 2.5 &=& h \end{array}
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Check

225 = 95 + 52h $225 \stackrel{?}{=} 95 + 52(2.5)$ $225 \stackrel{?}{=} 95 + 130$ $225 \stackrel{?}{=} 225 \checkmark$

Jill was charged for 2.5 hours of labor.

Lesson 2-8