

Algebra /

Multiplicative property of equality with signed fractions

Worked Examples:

This way is one extra step. But we don't like fractions, right? So any time you see a fraction in an equation, get rid of it! You get rid of it by multiplying by the denominator (or least common denominator if there are more than one).

$$8 \cdot -3v = -\frac{15}{8} \cdot 8 \quad \text{get rid of fraction}$$

$$\frac{-24v}{-24} = \frac{-15}{-24}$$

$$v = \frac{15 \div 3}{24 \div 3}$$

$$v = \frac{5}{8}$$

$$9 \cdot 2v = \frac{14}{9} \cdot 9$$

$$\frac{18v}{18} = \frac{14}{18}$$

$$v = \frac{14 \div 2}{18 \div 2} = \boxed{\frac{7}{9}}$$

#LinearEquationsAndInequalities
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