Directed Numbers with Algebra

Brackets, Equations and Inequalities Step 2

Small Step: Use directed numbers with algebra.

1. Simplify each of the following expressions.

   a. $2m + 5m$

   b. $3g - 7g$

   c. $-5r + 11r$

   d. $3a - -2a$

   e. $3p - 8p$

   f. $3a - 2b + 7a + 10b$

   g. $7x - 3y - 10x + 7$

   h. $x^2 - 3x + 2x^2 - 10x$

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3. Substitute $x = -2$ into each of the following expressions.

a. $3x + 7$

b. $5x - 3$

c. $8 - 2x$

d. x^2

e. $7 - 8x^2$

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2. Simplify each of the following expressions.

a. $3 \times -5p$

b. $-5 \times -4k$

c. $-4a \times 5b$

d. $\frac{8a}{4} \times -5b$

e. $3m \times -5m$

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