

1.2

SOLVE MULTI-STEP EQUATIONS

Solving Two-Step Equations

- Solve by using the INVERSE operation to undo operations
- Undo two-step equations by doing PEMDAS backwards!!

Examples

a) $2x - 15 = 15$

b) $837 = \frac{p}{2} + 37$

Examples

$$c) \quad -5.2 = -0.2 - k$$

$$d) \quad -7 = 9 - 4m$$

Practice

$$1) -3x + (-x) = 48$$

$$2) \frac{1}{4}y + 5 = 3$$

Practice

$$3) -0.07 = \frac{k}{8} + 0.1$$

$$4) \frac{1}{4}y + 5 = 3$$

Solving Multi-Step Equations

- Distribute if possible
- Simplify
- Solve

Examples

$$e) \quad 9a - a - 7 = 13$$

Solving Multi-Step Equations

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Examples

$$f) \quad r + 11 + 8r = 29$$

Solving Multi-Step Equations

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Examples

$$g) 10(1 + 3b) = -20$$

Solving Multi-Step Equations

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Examples

$$h) \ 8 = 8v - 4(v + 8)$$

Solving Multi-Step Equations

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Examples

i) $35 = -5 + 2x - 7x$

Solving Multi-Step Equations

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Examples

j) $4z + 7(z - 2) = 41$

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Examples

$$k) \quad -3(k + 1) + 4(k - 2) = 15$$