

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!!

$$a) 2x - 35 = 15$$

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

Examples

$$c) -3x + 1 = 7$$

$$d) \frac{1}{2}x - 9 = -25$$

Practice

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

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

Solving Multi-Step Equations

- Simplify (combine like terms) if you can
- Solve

$$a) \ 5a - a - 7 = 13$$

Solving Multi-Step Equations

- Simplify (combine like terms) if you can
- Solve

$$b) \ 8x - 6x - 25 = -35$$

Practice

$$1) \ -4n - 8n + 17 = 23$$

Solving Multi-Step Equations

- Simplify (combine like terms) if you can
- Solve

$$b) \ 8x - 6x - 25 = -35$$

Solving Multi-Step Equations

- Distribute if possible
- Simplify
- Solve

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

Solving Multi-Step Equations

- Distribute if possible
- Simplify
- Solve

d) $-3(x + 2) + 5x = -9$