

U4L3 Solving Equations One step and Two step

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A) One-step

- 1) $x+7 = 12$ $x=5$ ✓
 2) $x-6 = 4$ $x=10$ ✓
 3) $x+3 = -7$ $x=-10$ ✓
 4) $5-x = -15$
 5) $\frac{x}{2} = 4$
 6) $3x = 9$

↓

1) $x+7 = 12$
 $x = 5$ ✓

2) $x-6 = 4$
 $x = 10$ ✓

3) $x+3 = -7$
 $x = -10$ ✓

4) $5-x = -15$
 $-x = -20$
 $x = +20$ ✓

5) $\frac{x}{2} = 4 \cdot 2$
 $x = 8$ ✓

6) $3x = 9$
 $x = 3$ ✓

B) Two-Step Eqⁿs

ex 1) $5x+4 = -16$
 $5x+0 = -20$
 $x = -4$ ✓

CHECK

$5x+4$	-16
$5(-4)+4$	-16
$-20+4$	-16
-16	-16

✓ yes we are correct

★ Steps for solving eqⁿs: ★

- 1) Add/subtract number "less stuck" to your "x".
- 2) Mult/Divide term to get rid of the number "stuck" to your "x".
- 3) check!! (optional)

-16 | -16 ✓ yes we are correct

$$\begin{aligned} \text{ex 2)} \quad & 7.2 = 3x - 4.2 \\ & \frac{11.4}{3} = \frac{3x}{3} \end{aligned}$$

$$\boxed{3.8 = x} \quad \checkmark$$

$$\text{ex 3)} \quad \frac{9x}{2} - 6 = 21$$

$$\cancel{(2)} \frac{9x}{2} = 27 \quad (2)$$

$$\frac{9x}{9} = \frac{54}{9}$$

$$\boxed{x = 6} \quad \checkmark$$

$$\text{ex 4)} \quad 7x - 9x - 6 = 21 - 5$$

$$-2x - 6 = 16$$

$$\frac{-2x}{-2} = \frac{22}{-2}$$

$$\boxed{x = -11} \quad \checkmark$$

Assignment:

U4L3

wkst 1, 3, 5, 9, 11, 17, 19, 23, 35 41 / 10 = %