

Multi-Step Equations with CLEARING DECIMALS -- (NOTES)

Step 1: Find the number with the most digits behind the decimal point

Step 2: *If the longest decimal has **one digit** behind the decimal point, MULTIPLY EACH TERM BY 10

*If the longest decimal has **two digits** behind the decimal point, MULTIPLY EACH TERM BY 100

*If the longest decimal has **three digits** behind the decimal point, MULTIPLY EACH TERM BY 1000

Ex 1: $1.2 + 0.2x = 0.6$

What should you multiply each term by?
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Ex 2: $1.5x - 3.75 = 0.75$

What should you multiply each term by?
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Ex 3: (Hint – Distribute before clearing)

$$0.10x + 0.25(44 - x) = 8$$

What should you multiply each term by?
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Ex 4: (Hint – Distribute before clearing)

$$3(0.001x + 0.05) = 0.036$$

What should you multiply each term by?
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Multi-Step Equations with CLEARING DECIMALS -- (HOMEWORK)

1) $0.25x + 0.6 = 0.1$

Power: _____

$x = -2$

4) $0.3(n - 2) + 0.1 = 0.4$

Power: _____

$n = 3$

2) $11.3m + 12.8 = 7.5m + 35.6$

Power: _____

$m = 6$

5) $0.4x - 1.2 = 0.15x + 0.8$

Power: _____

$x = 8$

3) $0.15n - 0.1 = 0.25n + 2$

Power: _____

$n = -21$

6) $0.4(6x + 20) - 4 = 0.25(8x + 20)$

Power: _____

$x = 5/2$