1.2 SOLVE MULTI-STEP EQUATIONS



1) $\frac{x}{3} = 12$ 2) x - (-3) = -9

Solving Two-Step Equations

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



a)
$$2x - 15 = 15$$
 b) $837 = \frac{p}{2} + 37$



c) -5.2 = -0.2 - k d) -7 = 9 - 4m



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

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



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

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

- Distribute if possible
- Simplify
- Solve

a)
$$9a - a - 7 = 13$$

- Distribute if possible
- Simplify
- Solve <u>Examples</u>

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

- Distribute if possible
- Simplify
- Solve



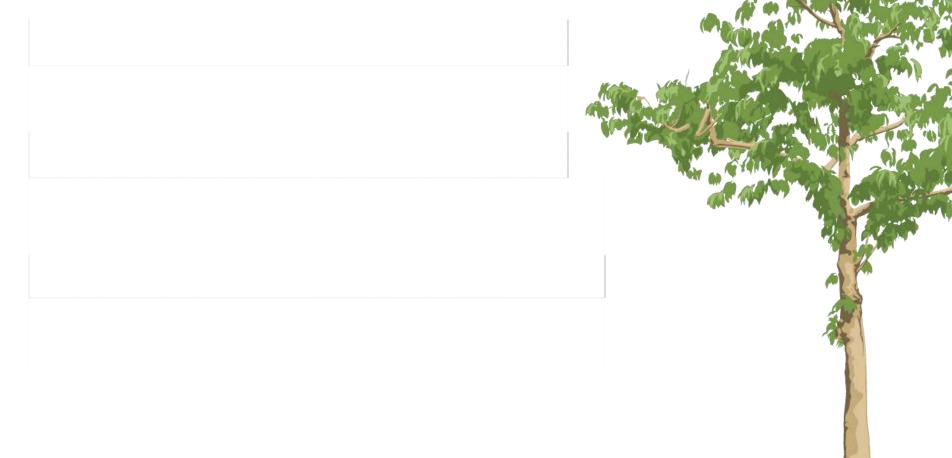
c)
$$4z + 7(z-2) = 41$$

- Distribute if possible
- Simplify
- Solve



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

The height (in feet) of a tree after x years is 1.5x + 15. After how many years is the tree 24 feet tall?



Use the table to find the number of miles *x* you need to run on Friday so that the mean number of miles run per day is 1.5.

	Day	Miles	
	Monday	2	
	Tuesday	0	
	Wednesday	1.5	
	Thursday	0	
	Friday	x	