Mr. Tallman

<u>Do Now</u>

Find the quotient. Show all work.

2) $0.96 \div (-0.03)$	3) $-7.16 \div (-0.2)$
	2) 0.96 ÷ (-0.03)

Lesson #20 - One Step Equations with Decimals

<u>Recall</u>: When solving one step algebraic equations, we need to isolate the variable by performing **<u>INVERSE OPERATIONS</u>**.

- The inverse of addition is ______.
- The inverse of subtraction is ______.
- The inverse of multiplication is ______.
- The inverse of division is ______.

We solve one step equations involving decimals the exact same way as we solve one step equations with integers.

Example 1) Solve and check the following.

A) $x + 3 = 5$	<u>Check</u>	B) $x + 3.2 = 5.8$	<u>Check</u>

Example 2) Solve and check the following.

A) $x - 7 = -15$	<u>Check</u>	B) $x - 7.6 = -15.3$	<u>Check</u>

Example 3) Solve and check the following.

A) $-6x = 24$	<u>Check</u>	B) $-2.2x = 8.8$	<u>Check</u>

Example 4) Solve and check the following.

A)	$\frac{x}{7} = -9$	<u>Check</u>	B) $\frac{x}{2.5} = -10.5$	<u>Check</u>

Now	, You	Try!	Solve	and	check	each	equ	lation.
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1) $-4.5 = k - 3.2$	Check	2) $-12 = -4.4 + x$	Check
3) $24.2 = -1.1d$	Check	4) $-3.3h = -16.5$	Check
5) $\frac{b}{6} = -5.8$	Check	6) $\frac{f}{-3} = -2.3$	Check

Challenge:

A scuba diver is exploring at an elevation of -12.2 meters. As the diver rises to the surface, she plans to stop and rest briefly at a reef that is an elevation of -4.5 meters. Write and solve an equation to find the vertical distance that the diver traveled.