

12-4-18

Aim: SWBAT continue to solve and check 2-step equations.

HW: Packet Page 12

Quiz Thursday (2-step equations)

Do Now: Quick quiz, then Check hw

HOMEWORK

Solve and check, algebraically.

	A		B	
4	$2x + 1 = 7$ $\begin{array}{r} -1 \quad -1 \\ \hline 2x = 6 \\ \frac{2x}{2} = \frac{6}{2} \\ x = 3 \end{array}$	<p>CHECK</p> $2x + 1 = 7$ $2 \cdot 3 + 1 \stackrel{?}{=} 7$ $6 + 1 \stackrel{?}{=} 7$ $7 = 7$	$10 - 7z = 3$ $\begin{array}{r} -10 \quad -10 \\ \hline -7z = -7 \\ \frac{-7z}{-7} = \frac{-7}{-7} \\ z = 1 \end{array}$	<p>CHECK</p> $10 - 7z = 3$ $10 - 7 \cdot 1 \stackrel{?}{=} 3$ $10 - 7 \stackrel{?}{=} 3$ $3 = 3$
5	$9 - 2k = 25$ $\begin{array}{r} -9 \quad -9 \\ \hline -2k = +16 \\ \frac{-2k}{-2} = \frac{+16}{-2} \\ k = -8 \end{array}$	<p>CHECK</p> $9 - 2k = 25$ $9 - 2(-8) \stackrel{?}{=} 25$ $9 + 16 \stackrel{?}{=} 25$ $25 = 25$	$\frac{x}{9} - 4 = 5$ $\begin{array}{r} +4 \quad +4 \\ \hline \frac{x}{9} = 9 \\ \frac{x}{9} \cdot \frac{9}{9} = 9 \cdot \frac{9}{9} \\ x = 81 \end{array}$	<p>CHECK</p> $\frac{x}{9} - 4 = 5$ $\frac{81}{9} - 4 \stackrel{?}{=} 5$ $9 - 4 \stackrel{?}{=} 5$ $5 = 5$
6	$29 = -5a + 4$ $\begin{array}{r} -4 \quad -4 \\ \hline 25 = -5a \\ \frac{25}{-5} = \frac{-5a}{-5} \\ -5 = a \end{array}$	<p>CHECK</p> $29 = -5a + 4$ $29 \stackrel{?}{=} -5(-5) + 4$ $29 \stackrel{?}{=} 25 + 4$ $29 = 29$	$100 - 7r = 44$ $\begin{array}{r} -100 \quad -100 \\ \hline -7r = -56 \\ \frac{-7r}{-7} = \frac{-56}{-7} \\ r = 8 \end{array}$	<p>CHECK</p> $100 - 7r = 44$ $100 - 7 \cdot 8 \stackrel{?}{=} 44$ $100 - 56 \stackrel{?}{=} 44$ $44 = 44$
7	$-32 = -17 - \frac{d}{2}$ $\begin{array}{r} +17 \quad +17 \\ \hline -2 \cdot -15 = \frac{d}{2} \cdot \frac{-2}{-2} \\ 30 = d \end{array}$	<p>CHECK</p> $-32 = -17 - \frac{d}{2}$ $-32 \stackrel{?}{=} -17 - \frac{30}{2}$ $-32 \stackrel{?}{=} -17 - 15$ $-32 = -32$	$-7 + \frac{z}{4} = 5.2$ $\begin{array}{r} +7 \quad +7 \\ \hline \frac{z}{4} = 12.2 \\ \frac{z}{4} \cdot \frac{4}{4} = 12.2 \cdot \frac{4}{4} \\ z = 48.8 \end{array}$	<p>CHECK</p> $-7 + \frac{z}{4} = 5.2$ $-7 + \frac{48.8}{4} \stackrel{?}{=} 5.2$ $-7 + 12.2 \stackrel{?}{=} 5.2$ $5.2 = 5.2$

Aim: SWBAT continue to solve and check 2-step equations.

Do Now: Solve and check.

$3y - 4 = 2$ $\begin{array}{r} +4 \quad +4 \\ \hline 3y = 6 \\ \frac{3y}{3} = \frac{6}{3} \\ y = 2 \end{array}$	<p>Check</p> $3y - 4 = 2$ $3 \cdot 2 - 4 = 2$ $6 - 4 = 2$ $2 = 2$
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#2 Two-Step Equations

- ii. Eliminate the constant
- iv. Eliminate the coefficient or denominator

Solve and check, algebraically.

	A	B	C
1	$\frac{2}{3}x + 1 = -9$ $\begin{array}{r} +1 \quad -1 \\ \hline \frac{2}{3}x = -10 \\ \frac{2}{2} \cdot \frac{3}{3}x = -10 \cdot \frac{3}{2} \\ x = -15 \end{array}$	$\frac{x}{5} - 1 = \frac{1}{3}$ $\begin{array}{r} +1 \quad +1 \\ \hline \frac{x}{5} = \frac{4}{3} \\ \frac{5}{1} \cdot \frac{x}{5} = \frac{4}{3} \cdot \frac{5}{1} \\ x = \frac{20}{3} \end{array}$	$-2x + 11 = 4$ $\begin{array}{r} -11 \quad -11 \\ \hline -2x = -7 \\ \frac{-2x}{-2} = \frac{-7}{-2} \\ x = \frac{7}{2} \end{array}$
	<p>CHECK</p> $\frac{2}{3}x + 1 = -9$ $\frac{2}{3}(-15) + 1 = -9$ $-10 + 1 = -9$ $-9 = -9$	<p>CHECK</p> $\frac{x}{5} - 1 = \frac{1}{3}$ $\frac{\frac{20}{3}}{5} - 1 = \frac{1}{3}$ $\frac{4}{3} - 1 = \frac{1}{3}$ $\frac{4}{3} - \frac{3}{3} = \frac{1}{3}$ $\frac{1}{3} = \frac{1}{3}$	<p>CHECK</p> $-2x + 11 = 4$ $-2 \cdot \frac{7}{2} + 11 = 4$ $-7 + 11 = 4$ $4 = 4$

CLASSWORK/HOMEWORK

Solve and check, algebraically.

	A		B	
1	$15 = -4p + 7$	CHECK	$11 = \frac{h}{6} + 8$	CHECK
2	$6 + 2c = 15$	CHECK	$7 + 5b = -23$	CHECK
3	$20 - 6w = 14$	CHECK	$\frac{c}{3} - 7 = 5.3$	CHECK
4	$\frac{3x}{5} = 12$	CHECK	$-\frac{5m}{2} = 35$	CHECK