

12-3-18

Aim: SWBAT solve and check 2-step equations.

HW: Packet Page 10

Quiz tomorrow (1-step solve and check)

Do Now: Packet Page 8

HOMEWORK

Solve and check, algebraically.

	A	B
6	$\frac{z}{1} \cdot \frac{p}{2} = 9 \cdot \frac{2}{1}$ $p = 18$	$\frac{p}{2} = 9$ $\frac{18}{2} = 9$ $9 = 9$
	CHECK	CHECK
7	$\frac{z}{1} \cdot \frac{z}{1.8} = 5 \cdot \frac{1.8}{1}$ $z = 9$	$\frac{z}{1.8} = 5$ $\frac{9}{1.8} = 5$ $5 = 5$
	CHECK	CHECK
8	$\frac{14h}{14} = \frac{35}{14}$ $* h = \frac{5}{2}$	$14h = 35$ $14 \cdot \frac{5}{2} = 35$ $35 = 35$
	CHECK	CHECK
9	$\frac{1368}{456} = \frac{456x}{456}$ $3 = x$	$\frac{12}{-2} = \frac{-2z}{-2}$ $-6 = z$
	CHECK	CHECK
10	$\frac{y}{1} \cdot \frac{y}{-1.5} = 21 \cdot \frac{-1.5}{1}$ $y = -31.5$	$\frac{y}{-1.5} = 21$ $\frac{-31.5}{-1.5} = 21$ $21 = 21$
	CHECK	CHECK

Aim: SWBAT solve and check 2-step equations.

Do Now: Solve.

$$\begin{array}{r}
 6 - x = -10 \\
 \underline{-6 \quad -6} \\
 -x = -16 \\
 \underline{-1 \quad -1} \\
 x = 16
 \end{array}$$

#2 Two-Step Equations

- i. Eliminate the constant
- iii. Eliminate the coefficient or denominator

Solve and check, algebraically.

	A	B	C
1	$ \begin{array}{r} 8 - x = -20 \\ \underline{-8 \quad -8} \\ -x = -28 \\ \underline{-1 \quad -1} \\ x = 28 \end{array} $	$ \begin{array}{r} 2x - 3 = 15 \\ \underline{+3 \quad +3} \\ 2x = 18 \\ \underline{\cancel{2} \quad \cancel{2}} \\ x = 9 \end{array} $	$ \begin{array}{r} \frac{x}{3} + 2 = 4 \\ \underline{-2 \quad -2} \\ \frac{x}{3} = 2 \\ \frac{x}{1} \cdot \frac{3}{3} = 2 \cdot \frac{3}{1} \\ x = 6 \end{array} $
	<p>CHECK</p> $ \begin{array}{l} 8 - x = -20 \\ 8 - 28 = -20 \\ -20 = -20 \end{array} $	<p>CHECK</p> $ \begin{array}{l} 2x - 3 = 15 \\ 2 \cdot 9 - 3 = 15 \\ 18 - 3 = 15 \\ 15 = 15 \end{array} $	<p>CHECK</p> $ \begin{array}{l} \frac{x}{3} + 2 = 4 \\ \frac{6}{3} + 2 = 4 \\ 2 + 2 = 4 \\ 4 = 4 \end{array} $

Solve and check, algebraically.

	A		B	
2	$\begin{array}{r} -3 + 8x = 35 \\ +3 \quad +3 \\ \hline 8x = 38 \\ \frac{8x}{8} = \frac{38}{8} \\ x = \frac{19}{4} \end{array}$	<p>CHECK</p> $\begin{array}{l} -3 + 8x = 35 \\ -3 + 8 \cdot \frac{19}{4} \stackrel{?}{=} 35 \\ -3 + 38 \stackrel{?}{=} 35 \\ 35 = 35 \end{array}$	$\begin{array}{r} 63 = 42 - 7x \\ -42 \quad -42 \\ \hline 21 = -7x \\ \frac{21}{-7} = \frac{-7x}{-7} \\ -3 = x \end{array}$	<p>CHECK</p> $\begin{array}{l} 63 = 42 - 7x \\ 63 \stackrel{?}{=} 42 - 7(-3) \\ 63 \stackrel{?}{=} 42 + 21 \\ 63 = 63 \end{array}$
3	$\begin{array}{r} \frac{x}{2} - 6 = 4 \\ +6 \quad +6 \\ \hline \frac{x}{2} = 10 \\ \frac{x}{2} \cdot \frac{2}{2} = 10 \cdot \frac{2}{2} \\ x = 20 \end{array}$	<p>CHECK</p> $\begin{array}{l} \frac{x}{2} - 6 = 4 \\ \frac{20}{2} - 6 \stackrel{?}{=} 4 \\ 10 - 6 \stackrel{?}{=} 4 \\ 4 = 4 \end{array}$	$\begin{array}{r} -1 + \frac{x}{-9} = -2 \\ +1 \quad +1 \\ \hline \frac{x}{-9} = -1 \\ \frac{x}{-9} \cdot \frac{-9}{-9} = -1 \cdot \frac{-9}{-9} \\ x = 9 \end{array}$	<p>CHECK</p> $\begin{array}{l} -1 + \frac{x}{-9} = -2 \\ -1 + \frac{9}{-9} \stackrel{?}{=} -2 \\ -1 + (-1) \stackrel{?}{=} -2 \\ -2 = -2 \end{array}$

HOMEWORK

Solve and check, algebraically.

	A		B	
4	$2x + 1 = 7$	CHECK	$10 - 7z = 3$	CHECK
5	$9 - 2k = 25$	CHECK	$\frac{x}{9} - 4 = 5$	CHECK
6	$29 = -5a + 4$	CHECK	$100 - 7r = 44$	CHECK
7	$-32 = -17 - \frac{d}{2}$	CHECK	$-7 + \frac{z}{4} = 5.2$	CHECK