

11-30-18

Aim: SWBAT solve and check one-step multiplication and division equations.

HW: Packet Page 7

Quiz Tuesday (1-step equations)

Do Now: Packet Page 5

HOMEWORK

Solve and check, algebraically.

	A	B	C	D
5	$t - 5 = 2$ <del><math>+5</math></del> $\frac{t - 5}{+5} = \frac{2}{+5}$ $t = 7$	CHECK $t - 5 = 2$ $7 - 5 = 2$ $2 = 2$	$23 = 6 + n$ <del><math>-6</math></del> $\frac{23 = 6 + n}{-6} = \frac{17 = n}{-6}$	CHECK $23 = 6 + n$ $23 = 6 + 17$ $23 = 23$
6	$13 = d - 27$ <del><math>+27</math></del> $\frac{13 = d - 27}{+27} = \frac{40 = d}{+27}$	CHECK $13 = d - 27$ $13 = 40 - 27$ $13 = 13$	$-204 = m - 41$ <del><math>+41</math></del> $\frac{-204 = m - 41}{+41} = \frac{-163 = m}{+41}$	CHECK $-204 = m - 41$ $-204 = 163 - 41$ $-204 = -204$
7	$p + 3.4 = 4.4$ <del><math>-3.4</math></del> $\frac{p + 3.4 = 4.4}{-3.4} = \frac{p = 1}{-3.4}$	CHECK $p + 3.4 = 4.4$ $1 + 3.4 = 4.4$ $4.4 = 4.4$	$3.77 + c = 3.977$ <del><math>-3.77</math></del> $\frac{3.77 + c = 3.977}{-3.77} = \frac{c = 0.207}{-3.77}$	CHECK $3.77 + c = 3.977$ $3.77 + 0.207 = 3.977$ $3.977 = 3.977$
8	$\frac{2}{3} = d + \frac{1}{3}$ <del><math>-\frac{1}{3}</math></del> $\frac{\frac{2}{3} = d + \frac{1}{3}}{-\frac{1}{3}} = \frac{\frac{1}{3} = d}{-\frac{1}{3}}$	CHECK $\frac{2}{3} = d + \frac{1}{3}$ $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ $\frac{2}{3} = \frac{2}{3}$	$m + (-5) = -12$ <del><math>-5</math></del> $\frac{m + (-5) = -12}{+5} = \frac{m = -7}{+5}$	CHECK $m + (-5) = -12$ $-7 + (-5) = -12$ $-12 = -12$
9	$-2 = b + (-4)$ <del><math>+4</math></del> $\frac{-2 = b + (-4)}{+4} = \frac{2 = b}{+4}$	CHECK $-2 = b + (-4)$ $-2 = 2 + (-4)$ $-2 = -2$	$r - (-36) = 5$ <del><math>+36</math></del> $\frac{r - (-36) = 5}{+36} = \frac{r = -31}{+36}$	CHECK $r - (-36) = 5$ $-31 - (-36) = 5$ $5 = 5$

Aim: SWBAT solve and check one-step multiplication and division equations.

Do Now: Answer the following questions.

The inverse operation of multiplication is division

The inverse operation of division is multiplication

The product of a number and its reciprocal is always equal to 1.

$$\frac{3}{1} \cdot \frac{1}{3} = 1$$

#1 Eliminating numbers on the same side as the variable

- Constants eliminate with opposite sign
- Coefficients eliminate with division of the coefficient
- Denominators eliminate with multiplication of the denominator
- Fractional Coefficients eliminate with multiplication of the reciprocal

Solve and check, algebraically.

	A	B
1	$\frac{3x}{3} = \frac{15}{3}$ $x = 5$	<p>CHECK</p> $3x = 15$ $3 \cdot 5 \stackrel{?}{=} 15$ $15 = 15$
		$\frac{-3x}{-3} = \frac{15}{-3}$ $x = -5$
		<p>CHECK</p> $-3x = 15$ $(-3)(-5) \stackrel{?}{=} 15$ $15 = 15$
2	$\frac{7x}{7} = \frac{-14}{7}$ $x = -2$	<p>CHECK</p> $7x = -14$ $(7)(-2) \stackrel{?}{=} -14$ $-14 = -14$
		$\frac{-7x}{-7} = \frac{-14}{-7}$ $x = 2$
		<p>CHECK</p> $-7x = -14$ $-7 \cdot 2 \stackrel{?}{=} -14$ $-14 = -14$

Solve and check, algebraically.

	A	B
3	$\cancel{\frac{1}{1}} \cdot \frac{x}{\cancel{7}} = 4 \cdot \frac{7}{1}$ $x = -28$	$\cancel{\frac{1}{1}} \cdot \frac{x}{\cancel{7}} = -4 \cdot \frac{7}{1}$ $x = 28$
	<p>CHECK</p> $\frac{x}{-7} = 4$ $\frac{-28}{-7} \stackrel{?}{=} 4$ $4 = 4$	<p>CHECK</p> $\frac{x}{-7} = -4$ $\frac{28}{-7} \stackrel{?}{=} -4$ $-4 = -4$
4	$\cancel{\frac{1}{1}} \cdot \frac{x}{\cancel{3}} = 10 \cdot \frac{3}{1}$ $x = -30$	$\cancel{\frac{1}{1}} \cdot \frac{x}{\cancel{5}} = -6 \cdot \frac{5}{1}$ $x = -30$
	<p>CHECK</p> $\frac{x}{-3} = 10$ $\frac{-30}{-3} \stackrel{?}{=} 10$ $10 = 10$	<p>CHECK</p> $\frac{x}{5} = -6$ $\frac{-30}{5} \stackrel{?}{=} -6$ $-6 = -6$
5	$\frac{4}{\cancel{2}} \cdot \frac{3}{\cancel{4}} x = 9 \cdot \frac{4}{3}$ $x = 12$	$\frac{-4}{\cancel{2}} \cdot \frac{3}{\cancel{4}} x = 9 \cdot \frac{-4}{3}$ $x = -12$
	<p>CHECK</p> $\frac{3}{4} x = 9$ $\frac{3}{4} \cdot 12 \stackrel{?}{=} 9$ $9 = 9$	<p>CHECK</p> $-\frac{3}{4} x = 9$ $-\frac{3}{4} \cdot -12 \stackrel{?}{=} 9$ $9 = 9$

## HOMEWORK

Solve and check, algebraically.

	A		B	
6	$\frac{p}{2} = 9$	CHECK	$3b = 39$	CHECK
7	$\frac{z}{1.8} = 5$	CHECK	$44 = 4.4p$	CHECK
8	$14h = 35$	CHECK	$12m = -25.2$	CHECK
9	$1368 = 456x$	CHECK	$12 = -2z$	CHECK
10	$\frac{y}{-1.5} = 21$	CHECK	$-x = -8$	CHECK