

12-15-17

Aim: SWBAT review.

HW: Finish WS

Test Tuesday

Do Now: Check HW from Wednesday and yesterday

Pg. 301

$$\begin{array}{l} \textcircled{21} \quad 3(j+4) = -2j + j \\ \begin{array}{r|l} 3j + 12 & = -j \\ -3j & \quad -3j \\ \hline 12 & = +4j \\ -4 & \quad -4 \\ \hline -3 & = j \end{array} \end{array}$$

$$\begin{array}{l} \text{ck/} \quad 3(j+4) = -2j + j \\ 3(-3+4) \stackrel{?}{=} -2(-3) + (-3) \\ \begin{array}{r|l} 3(1) & \stackrel{?}{=} 6 + (-3) \\ 3 & = 3 \end{array} \end{array}$$

$$\begin{array}{l} \textcircled{22} \quad 5(t+7) = 2(2t+7) \\ \begin{array}{r|l} 5t + 35 & = 4t + 14 \\ -4t & \quad -4t \\ \hline t + 35 & = 14 \\ -35 & \quad -35 \\ \hline t & = -21 \end{array} \end{array}$$

$$\begin{array}{l} \text{ck/} \quad 5(t+7) = 2(2t+7) \\ 5(-21+7) \stackrel{?}{=} 2(2(-21)+7) \\ \begin{array}{r|l} 5(-14) & \stackrel{?}{=} 2(-42+7) \\ -70 & = 2(-35) \\ -70 & = -70 \end{array} \end{array}$$

$$\begin{array}{l} \textcircled{23} \quad 2(c+6) = 5(c+12) \\ \begin{array}{r|l} 2c + 12 & = 5c + 60 \\ -2c & \quad -2c \\ \hline 12 & = 3c + 60 \\ -60 & \quad -60 \\ \hline -48 & = 3c \\ \frac{-48}{3} & = \frac{3c}{3} \\ -16 & = c \end{array} \end{array}$$

$$\begin{array}{l} \text{ck/} \quad 2(c+6) = 5(c+12) \\ 2(-16+6) \stackrel{?}{=} 5(-16+12) \\ \begin{array}{r|l} 2(-10) & \stackrel{?}{=} 5(-4) \\ -20 & = -20 \end{array} \end{array}$$

$$\begin{array}{l} \textcircled{24} \quad 6(s-4) = 3(s+9) \\ \begin{array}{r|l} 6s - 24 & = 3s + 27 \\ -3s & \quad -3s \\ \hline 3s - 24 & = 27 \\ +24 & \quad +24 \\ \hline 3s & = 51 \\ \frac{3s}{3} & = \frac{51}{3} \\ s & = 17 \end{array} \end{array}$$

$$\begin{array}{l} \text{ck/} \quad 6(s-4) = 3(s+9) \\ 6(17-4) \stackrel{?}{=} 3(17+9) \\ 6(13) \stackrel{?}{=} 3(26) \\ 78 = 78 \end{array}$$

CLEARING FRACTIONS AND DECIMALS FROM EQUATIONS

Tell what number you multiply each side of the equation by to clear the decimals and fractions.

Decimal point moves behind the #		Multiply by the Least Common Denominator (LCD)	
<ul style="list-style-type: none"> • 1 place → x 10 • 2 places → x 100 • 3 places → x 1000 			
1	$10 (1.5a - 1.2) = 1.8a$ $15a - 12 = 18a$	10	$8 (\frac{3}{8}m + \frac{7}{8}) = 2m$ $3m + 7 = 16m$
2	$100 (0.5c + 3.49 - 2c) = 4$ $50c + 349 - 200c = 400$	11	$15 (\frac{-4}{15}n + \frac{2}{3}) = \frac{2}{5}n$ $-4n + 10 = 6n$
3	$10 (1.5s - 1.2 - s) = 0.5$ $15s - 12 - 10s = 5$	12	$20 (-\frac{1}{5}p + \frac{3}{4}) = 11$ $-4p + 15p = 220$
4	$100 (4.93 - 9.2v) = 0.66v$ $493 - 920v = 66v$	13	$10 (\frac{3}{10} - w) = \frac{4}{5} - \frac{3}{5}w$ $3 - 10w = 8 - 6w$
5	$100 (5.85b) = 8.68 + 3.68b$ $585b = 868 + 368b$	14	$4 (\frac{3}{4} - \frac{1}{2}b) = -3b$ $3 - 2b = -12b$
6	$10 (r + 8.2 + 0.4r) = -8.6$ $10r + 82 + 4r = -86$	15	$9 (p - \frac{4}{9}p) = \frac{7}{9}$ $9p - 4p = -7$
7	$10 (5.3 + u) = 3.2u - 2.7$ $53 + 10u = 32u - 27$	16	$6 (\frac{1}{6}x + \frac{2}{3}) = 1$ $x + 4x = 6$
8	$10 (7.6a + 9.6) = 1.2a$ $76a + 96 = 12a$	17	$12 (\frac{7}{4}z - \frac{1}{6}) = \frac{17}{6} + \frac{3}{4}z$ $21z - 2 = 34 + 9z$
9	$1000 (-4.42x + 0.9) = -9.07 - 0.432x$ $-4420x + 900 = -9070 - 432x$	18	$45 (\frac{4}{5}n - \frac{8}{9}) = \frac{7}{15}n$ $306n - 40 = 21n$

Name _____

Equations Review

Date _____

Period _____

Solve and check algebraically.

1. $\frac{2}{5}x = 10$	Check	2. $4 - 2x = 9$	Check
3. $\frac{x}{-4} + 8 = -2$	Check	4. $2 + \frac{x}{-3} = 6$	Check
5. $17 = -3 - x$	Check	6. $\frac{-3}{4}x = 20$	Check

Solve and check algebraically.

7. $2x + 3x + 2 = 12$	Check	8. $8x - 1 - 5 = 10$	Check
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Name _____

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9. $6(x + 2) = 24$	Check	10. $-2(x + 4) = 20$	Check
11. $\frac{1}{5}(5x - 25) = 10$	Check	12. $-6x + 8x - 4 = -10 + 12$	Check
13. $2x + 18 = 5x + 6$	Check	14. $-x + 3 = 11x + 27$	Check
15. $3 - 4x = -5x + 2$	Check	16. $-(x + 2) = 4(x - 3)$	Check