

12-15-17

Aim: SWBAT review.

HW: Finish WS

Test Tuesday

Do Now: Check HW from Wednesday and yesterday

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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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