

Bellwork - Continue working on Spiral Review

While you are working, please take out yesterday's hw and write the # of problems you attempted at the top of your paper (11)

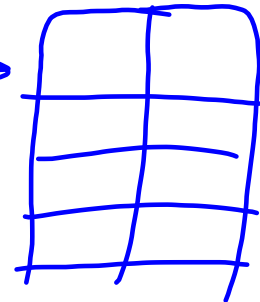
WEEK OF 9/24 - 9/25

FRI 9/28 - Equations Quiz

Due Sun 9/30 midnight - 2 Mangahigh

Due Mon 10/1 - Spiral Review

Due Mon 10/1 - Section 1 test corrections



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1. $19 - 1h - 1h = -13$
 $-19 \quad 16 \quad -2h = -13$
 $-19 \quad -2h = -13$
 $-2h = -13$

$h = 16$

7. $42j + 18 - 19j = -28$
 $-2 \quad 23j + 18 = -28$
 $-18 \quad 23j = -46$
 $23j = -46$
 $23j = -46$

$j = -2$

5. $-34 = v + 42 - 5v$
 19

3. $25 = 7 + 3k - 12$
 10

9. $-28 + 15 - 22z = 31$
 -2

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11. Five times a number decreased by 18 minus 4 times the same number is -36 .

What is the number? $5n - 18 - 4n = -36; -18$

15. $42 = 3(2 - 3h)$

-4

13. $3(4y - 8) = 12$

3

19. $x - 2(x + 10) = 12$

-32

17. $3p - 4 = 31$

~~35~~

$p = \frac{35}{3}$

21. Angela ate at the same restaurant four times. Each time she ordered a salad and left a \$5 tip. She spent a total of \$54. Write and solve an equation to find the cost of each salad. $4(c + 5) = 54; \$8.50$

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Solving Equations with Fractions

$$\frac{z + 6}{3} = 8 \cdot 3$$

$$\frac{z + 6}{3} = 24$$

$$\frac{z + 6}{3} = 24$$

$$\frac{z + 6}{3} = 24$$

$$\sqrt{18 + 6}$$

$$\frac{24}{3} = 8$$

$$\frac{j + 18}{4} = 8 \cdot -4$$

$$\frac{j + 18}{4} = -32$$

$$\frac{j + 18}{4} = -32$$

$$\frac{j + 18}{4} = -32$$

$$\sqrt{-50 + 18}$$

$$\frac{-32}{-4} = 8$$

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clear the fraction first

$$\begin{array}{r|l} -\frac{1}{4} \cdot \frac{1}{4} & = \left(\frac{1}{4}h + \frac{4}{4} \right) \cdot \frac{1}{4} \\ \hline - & = \left(\frac{1}{4}h \cdot \frac{1}{4} \right) + (4 \cdot \frac{1}{4}) \\ \hline - & = h + \cancel{16} \\ -16 & \quad \quad \quad \cancel{+16} \\ \hline -15 & = h \end{array}$$

$$\begin{array}{r|l} 6v - \frac{5}{8} & = \frac{7}{8} \\ \hline + \frac{5}{8} & \quad \quad \quad + \frac{5}{8} \\ \hline 6v & = \frac{12}{8} \\ \hline \cancel{6v} & \quad \quad \quad \cancel{\frac{12}{8}} \\ \hline & = \frac{12}{8} \\ & = \frac{3}{2} \end{array}$$

✓ $\frac{1}{4} = \frac{1}{4} \cdot \frac{-15}{-15} + 4$

$\frac{1}{4} = \frac{-15}{4} + \frac{4 \cdot 4}{4}$

$\frac{1}{4} = \frac{1}{4}$

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Solving equations with variables on both sides

variable constants

$$\begin{array}{r|l} 3n + 2 & = 2n - 8 \\ \hline +2n & \quad \quad \quad +2n \\ \hline 5n + 2 & = -8 \\ \hline -2 & \quad \quad \quad -2 \\ \hline 3n & = -10 \\ \hline \cancel{3n} & \quad \quad \quad \cancel{3n} \\ \hline n & = -2 \end{array}$$

constant variable Term

$$\begin{array}{r|l} 17 - 9y & = -3 + 16y \\ \hline +9y & \quad \quad \quad +9y \\ \hline 17 & = -3 + 25y \\ \hline +3 & \quad \quad \quad +3 \\ \hline 20 & = 25y \\ \hline \cancel{20} & \quad \quad \quad \cancel{20} \\ \hline & = 25y \\ & = \frac{20}{25} \\ & = \frac{4}{5} \end{array}$$

✓ $-6 + 2 = 4 - 8$

$-4 = -4$

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$\begin{array}{r l} -(5a + 6) & = 2(3a + 8) \\ -5a - 6 & = 6a + 16 \\ +5a & +5a \\ \hline -6 & = 11a + 16 \\ -16 & -16 \\ \hline -22 & = 11a \\ \frac{-22}{11} & = \frac{11a}{11} \\ -2 & = a \end{array}$	$\begin{array}{r l} 14 + 3n & = 8n - 3(n - 4) \\ 14 + 3n & = 8n - 3n + 12 \\ -3n & -3n \\ \hline 14 & = 5n + 12 \\ -12 & -12 \\ \hline 2 & = 2n \\ \frac{2}{2} & = \frac{2n}{2} \\ 1 & = n \end{array}$
$\begin{aligned} \checkmark -(-10 + 6) &= 2(-6 + 8) \\ -(-4) &= 2(2) \\ 4 &= 4 \end{aligned}$	$\begin{aligned} \checkmark 14 + 3 &= 8 - 3(-3) \\ 17 &= 8 + 9 \\ 17 &= 17 \end{aligned}$

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Determine whether each equation is an *identity* or whether it has *no solution*.

$\begin{array}{r l} -(3z + 4) & = 6z - 3(3z + 2) \\ -3z - 4 & = 6z - 9z - 6 \\ -3z - 4 & = -3z - 6 \\ +6z & +6z \\ \hline -4 & = -6 \end{array}$ <p style="text-align: center;">NO Sol.</p>	$\begin{array}{r l} 5x + 2x - 3 & = -3x + 10x \\ -7x - 3 & = -7x \\ -3 & = 0 \end{array}$ <p style="text-align: center;">NO Sol</p>
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Identity

$$\begin{array}{r|l} 6x + 3 & = 6x + 3 \\ -6x & -6x \\ \hline 3 & = 3 \end{array}$$

infinite number of sol

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Homework

Textbook pages 51 - 52 (multiples of 3)

13 Problems



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