

Algebra 1 Bellwork Thursday, October 2, 2014

1. The sum of four consecutive odd numbers is ~~-189~~⁻¹⁸⁴. Write and solve an equation to find these three numbers.

2. Find the exact solution.

$$9M + 23 = 6M$$

3. Find the exact solution.

$$5 - 2(W + 6) = 4 + W - 13 - 3W$$

4. Find the exact solution

$$8 + 2(5C - 7) = 7C + 1 + 3C - 7$$

5. Find the exact solution.

$$\frac{11}{12} - \frac{7}{6}C = \frac{23}{9}$$

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1. The sum of four consecutive odd numbers is ~~-189~~⁻¹⁸⁴. Write and solve an equation to find these three numbers.

$$\begin{aligned} \frac{x}{1} + \frac{x+2}{1} + \frac{x+4}{1} + \frac{x+6}{1} &= -184 \\ 4x + 12 &= -184 \\ -12 &-12 \\ 4x &= -196 \\ x &= -49 \end{aligned}$$

-49, -47, -45, -43

2. Find the exact solution.

$$\begin{array}{r} 9M + 23 = 6M \\ -9M \quad -9M \end{array}$$

$$23 = -3M$$

$$M = -\frac{23}{3}$$

3. Find the exact solution.

$$5 - 2(W + 6) = 4 + W - 13 - 3W$$

$$5 - 2W - 12 = 4 + W - 13 - 3W$$

$$\begin{array}{r} -2W - 7 = -2W - 9 \\ +2W \quad +2W \end{array}$$

$$\begin{array}{r} -7 = -9 \\ \text{False!} \end{array}$$

NO SOL

4. Find the exact solution

$$8 + 2(5C - 7) = 7C + 1 + 3C - 7$$

$$8 + 10C - 14 = 7C + 1 + 3C - 7$$

$$\begin{array}{r} 10C - 6 = 10C - 6 \\ -10C \quad -10C \end{array}$$

$$\begin{array}{r} -6 = -6 \\ \text{TRUE} \end{array}$$

ALL REAL #s

5. Find the exact solution.

$$36\left(\frac{11}{12} - \frac{7}{6}C\right) = \left(\frac{23}{9}\right)36$$

$$\begin{array}{r} 33 - 42C = 92 \\ -33 \quad -33 \end{array}$$

$$\begin{array}{r} -42C = 59 \\ -42 \quad -42 \end{array}$$

$$C = 59/-42$$