

Algebra 1 Bellwork Thursday, October 22, 2015

Find the exact solution to each equation.

1. $5 + 6p - 19 = 3p$

2. $4 - 3(m + 2) + 7m = -3 + 8 + 4m - 2$

3. $9k + 2 - 3k - 14 = 3(2k - 5) + 3$

4. The perimeter of a rectangle is 46 cm. The length is one less than twice the width. Write and solve an equation to find the dimensions (length and width) of the rectangle.

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Find the exact solution to each equation.

1. $5 + 6p - 19 = 3p$

$$\begin{array}{r} 6p - 14 = 3p \\ -6p \quad -6p \end{array}$$

$$\frac{-14}{-3} = \frac{-3p}{-3}$$

$$p = \frac{14}{3}$$

3. $9k + 2 - 3k - 14 = 3(2k - 5) + 3$

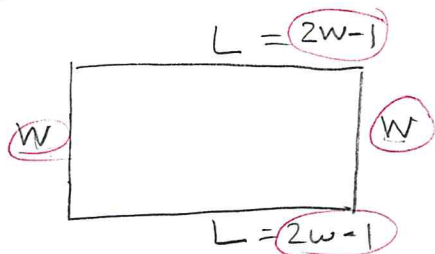
$$6k - 12 = 6k - 15 + 3$$

$$\begin{array}{r} 6k - 12 = 6k - 12 \\ -6k \quad -6k \end{array}$$

$$-12 = -12 \text{ TRUE}$$

ALL REAL #s

4. The perimeter of a rectangle is 46 cm. The length is one less than twice the width. Write and solve an equation to find the dimensions (length and width) of the rectangle.



$$\begin{array}{l} W = 8 \\ L = 15 \end{array}$$

$$\begin{array}{l} L = 2(8) - 1 \\ L = 16 - 1 \\ L = 15 \end{array}$$

$$P = L + w + L + w$$

$$46 = 2w - 1 + w + 2w - 1 + w$$

$$46 = 6w - 2$$

$$48 = 6w$$

$$w = 8$$

Answers

2. $4 - 3(m + 2) + 7m = -3 + 8 + 4m - 2$

$$4 - 3m - 6 + 7m = -3 + 8 + 4m - 2$$

$$\begin{array}{r} -2 + 4m = 4m + 3 \\ -4m \quad -4m \end{array}$$

$$-2 = 3 \text{ FALSE!}$$

NO SOLUTION