

Algebra 1 Bellwork September 25, 2014

1. When the baker turned off the oven the temperature was $400^{\circ}F$. The oven cooled off $14^{\circ}F$ per min. After a while the temperature in the oven was $85^{\circ}F$. Write and solve an equation to find the number of minutes it took the oven to cool from $400^{\circ}F$ down to $85^{\circ}F$.

Solve each equation.

2. $8 - 2Q = 31$

3. $56 + \frac{G}{6} = 37$

4. $-25 = -9 - \frac{7}{3}P$

5. $\frac{11+C}{5} = 8$

6. $-8 - X = 41$

7. $4(W - 5) = 12$

8. Do a Boolean check to see if $x = 1.25$ is a solution to the following equation: $\sqrt{20x} + 2 = \text{Log}(800x) + 4$

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1. When the baker turned off the oven the temperature was $400^{\circ}F$. The oven cooled off $14^{\circ}F$ per min. After a while the temperature in the oven was $85^{\circ}F$. Write and solve an equation to find the number of minutes it took the oven to cool from $400^{\circ}F$ down to $85^{\circ}F$.

$m = \# \text{ min after oven turned off}$

EQ: $400 - 14m = 85$

$m = 22.5 \text{ min}$

Solve each equation.

2. $8 - 2Q = 31$

$-8 \quad -8$
 $-2Q = 23$
 $\frac{-2Q}{-2} = \frac{23}{-2}$

$Q = -11.5$

3. $56 + \frac{G}{6} = 37$

$-56 \quad -56$
 $\frac{G}{6} = -19$

$G = -114$

4. $-25 = -9 - \frac{7}{3}P$

$+9 \quad +9$
 $-\frac{3}{7} \cdot -16 = -\frac{7}{3}P \cdot -\frac{3}{7}$

$P = \frac{48}{7}$

5. $\frac{11+C}{5} = 8$

$11 + C = 40$
 $-11 \quad -11$

$C = 29$

6. $-8 - X = 41$

$+8 \quad +8$
 $-X = 49$

$X = -49$

7. $4(W - 5) = 12$

$\frac{4(W-5)}{4} = \frac{12}{4}$
 $W - 5 = 3$
 $+5 \quad +5$

$W = 8$

$4W - 20 = 12$
 $+20 \quad +20$
 $4W = 32$
 $\frac{4W}{4} = \frac{32}{4}$

8. Do a Boolean check to see if $x = 1.25$ is a solution to the following equation: $\sqrt{20x} + 2 = \text{Log}(800x) + 4$

Yes, $x = 1.25$ is a solution