Algebra 1 Bellwork Tuesday, October 20, 2015

Find the exact solution to each equation.

1. $\frac{9}{4} - \frac{7}{3}P = \frac{5}{12}$

2. $\frac{2}{9}C - \frac{11}{4} = -\frac{13}{12}$

3. $3w - 5(2w + 4) - 9 = w - 7 + 2w - 3$

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Find the exact solution to each equation.

1. $12\left(\frac{9}{4} - \frac{7}{3}P\right) = \left(\frac{5}{12}\right)12$ LCM = 12

$27 - 28P = 5$

$-27 \qquad -27$

$\frac{-28P}{-28} = \frac{-22}{-28}$

$P = \frac{11}{14}$

2. $36\left(\frac{2}{9}C - \frac{11}{4}\right) = \left(-\frac{13}{12}\right)36$ LCM = 36

$8C - 99 = -39$

$+99 \qquad +99$

$\frac{8C}{8} = \frac{60}{8}$

$C = \frac{15}{2}$ or 7.5

3. $3w - 5(2w + 4) - 9 = w - 7 + 2w - 3$

$3w - 10w - 20 - 9 = w - 7 + 2w - 3$

$-7w - 29 = 3w - 10$

$+7w \qquad +7w$

$-29 = 10w - 10$

$+10 \qquad +10$

$-19 = 10w$

$w = \frac{-19}{10}$ or -1.9