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***Lesson 2-3c Solve Multi-Step Equations w/ Rationals (Fractions/Decimals) Homework***

| | SOLVE | **CHECK** |
|---|---|---|
| **1** | $1.4 - 0.2(0.3p + 0.1) = 1.8$<br><br>P = -7 | $1.4 - 0.2(0.3p + 0.1) = 1.8$ |
| **2** | $\mathbf{-0.5(x + 0.3) - 0.2x = 4.1}$<br><br>x = -8 | $\mathbf{-0.5(x + 0.3) - 0.2x = 4.1}$ |
| **3** | $-2r + \frac{1}{3} - \frac{5}{2}r = -\frac{25}{6}$<br><br>r = 1 | $-2r + \frac{1}{3} - \frac{5}{2}r = -\frac{25}{6}$ |
| **4** | $\mathbf{\frac{1}{8}(3y + 2) - \frac{1}{2} = 1\frac{3}{8}}$<br><br>**Y = 4 ⅓** | $\mathbf{\frac{1}{8}(3y + 2) - \frac{1}{2} = 1\frac{3}{8}}$ |

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| | | |
|---|---|---|
| 5 | $2y - \frac{3}{5} = \frac{1}{2}$<br><br>Y = 11/20 | $2y - \frac{3}{5} = \frac{1}{2}$ |
| 6 | $\frac{2}{7}\left(14q + \frac{7}{2}\right) - 3q = 9$<br><br>Q = 2 ¾ | $\frac{2}{7}\left(14q + \frac{7}{2}\right) - 3q = 9$ |

## Common Core Spiral Review

***Simplify original expression, then simplify ABC. If you get the same simplifed expression, check yes, if you get a different exressio, check no. MUST SHOW WORK FOR CREDIT!!***

**1.** Consider each expression. Is the expression equivalent to $2x + 4(x - 3)$?

Select Yes or No for expressions A–C.

| | | | |
|---|---|---|---|
| **A.** | $4(x - 3) + 2x$ | ◯ Yes | ◯ No |
| **B.** | $(2x + 4x) - 3$ | ◯ Yes | ◯ No |
| **C.** | $6x - 12$ | ◯ Yes | ◯ No |

***Substitute seconds from ABC into expression. If the answer is the height, check yes. If the answer is not the height, check no. MUST SHOW WORK FOR CREDIT!!!***

**2.** The expression $-16t^2 + 60t$ gives the height in feet of a football $t$ seconds after it is kicked.

Choose True or False for each statement.

| | | | |
|---|---|---|---|
| **A.** | After 0.5 second, the ball is 22 feet high. | ◯ True | ◯ False |
| **B.** | After 1 second, the ball is 44 feet high. | ◯ True | ◯ False |
| **C.** | After 1.5 seconds, the ball is 54 feet high. | ◯ True | ◯ False |