



Solving Multistep Equations Review

LO: SWBAT solve multistep equations.


CO: SW use the anagram "Please Find Cindy's Very Naughty Dog" to solve multistep equations.

Steps to Solving Equations

Please (Parentheses)

Find (Fractions)

Cindy's (Combine like terms)



equations.

Steps to Solving Equations

Please (Parentheses)


Find (Fractions)

Cindy's (Combine like terms)

Very (+/- Variables to one side)

Naughty (+/- Numbers to the other)

Dog (Divide by coefficient)



In line | Wrap text | Break text



✓ ✓ ✓

P F C V N D

$$1. \quad 3k - 1 = 7k + 2$$

$$\begin{array}{r} -3k \\ \hline \end{array} \quad \begin{array}{r} -3k \\ \hline \end{array} \quad \begin{array}{r} \text{Var} \\ \hline \end{array}$$

$$\begin{array}{r} -1 = 4k + 2 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} -2 \\ \hline \end{array} \quad \begin{array}{r} \text{Num} \\ \hline \end{array}$$

$$\begin{array}{r} -3 \\ 4 \end{array} = \begin{array}{r} 4k \\ 4 \end{array} \quad \begin{array}{r} \text{Div} \\ \hline \end{array}$$

$$\frac{-3}{4} = k$$

Check:

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P F C V N D

$$2. \left(\frac{x+4}{2} = 5 \right)$$

FRAC

$$x+4=10$$

$$\begin{array}{r} x+4=10 \\ -4 \quad -4 \\ \hline \end{array}$$

$$x=6$$

num

Check:

$$\frac{x+4}{2} \cdot \frac{2}{1} = \frac{x+4}{1}$$

$$\frac{2}{4} \cdot \frac{8}{2} = 2$$

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$$\begin{array}{r}
 \checkmark \quad \checkmark \\
 \text{P F C V N D} \\
 \hline
 3. \quad 2(n - 3) = 4n + 1 \quad \text{par} \\
 \begin{array}{r}
 2n - 6 = 4n + 1 \\
 -2n \quad \quad -2n \quad \quad \text{var} \\
 \hline
 -6 = 2n + 1 \\
 -1 \quad \quad -1 \quad \quad \text{num} \\
 \hline
 -7 = 2n \\
 \frac{-7}{2} = \frac{2n}{2} \\
 \frac{-7}{2} = n \quad \text{Div}
 \end{array}
 \end{array}$$

Check:

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$$4. \quad 7(5x - 2) = 6(6x - 1)$$

$$\begin{array}{r} 35x - 14 = 36x - 6 \\ -35x \quad -35x \end{array}$$

$$\begin{array}{r} -14 = x - 6 \\ +6 \quad +6 \end{array}$$

$$-8 = x$$

Check:

par

var

nyr

✓
P F C V N D

$$5. \quad 5 - 2(2d - 1) = 2d - 11 \quad \text{par}$$

$$5 - 4d + 2 = 2d - 11 \quad \text{com}$$

$$7 - 4d = 2d - 11 \quad \text{var}$$
$$+4d \quad +4d$$

$$7 = 6d - 11 \quad \text{+11 num}$$

$$+11$$

$$18 = 6d$$

$$\frac{18}{6} = \frac{6d}{6}$$

d:V

$$3 = d$$

Check:

Assignment: Solving Multistep Equations Review Worksheet

