

Worksheet

05/15/2020

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Problem quickname: 9505

1)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $156 - 1 = 2f - 3$ b) $7q + 3 = 5 + 320$ c) $530 - 4h = 4h + 2h$

2)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $319 + 3v = 12v - 5$ b) $8s - 2s = 252 - 3s$ c) $3f + 6 = 4 + 44$
d) $-4r + 44 = -3 + 3$ e) $-4z + 2 = -364 + 2$ f) $-e + 3e = 8e - 342$
g) $-6k - 6 = -4 - 410$ h) $3q - 3 = 142 - 4$ i) $9n - 2 = -1 + 692$

3)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $-3 + 1 = -482 + 10u$ b) $-3b + 5 = -230 + 1$
c) $i + 5i = -243 + 9i$ d) $-5r - 3 = -1 - 202$
e) $-8d + 2 = -4 - 602$ f) $-6s - 2s = -161 + 1$
g) $-3y + 203 = -7 + 3$ h) $-2p - 4p = -2 - 496$
i) $-8f + 2 = 4 - 466$

4)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $-2r - 3 = -12r + 307$ | +
 $-$ $r = -$ $r +$ | +
 $r =$ | :
 $r =$

b) $9g - 298 = -3 + 2$ | rearrange and combine like terms
 $g -$ $=$ | +
 $g =$ | :
 $g =$

$$\begin{array}{l}
 \text{c) } 7w + w = 300 + 4 \quad | \text{ rearrange and combine like terms} \\
 \quad \square w = \square \quad | : \square \\
 \quad w = \square
 \end{array}$$

$$\begin{array}{l}
 \text{d) } 212 - 4p = -1 - p \quad | \text{ rearrange and combine like terms} \\
 -\square p + \square = -p - \square \quad | -\square \\
 \quad -\square p = -p - \square \quad | +\square \\
 \quad -\square p = -\square \quad | : \square \\
 \quad p = \square
 \end{array}$$

$$\begin{array}{l}
 \text{e) } 234 - 4 = 9n - 4n \quad | \text{ rearrange and combine like terms} \\
 \quad \square = \square n \quad | -\square \\
 \quad \square = \square n - \square \quad | -\square \\
 -\square n = -\square \quad | : \square \\
 \quad n = \square
 \end{array}$$

$$\begin{array}{l}
 \text{f) } 2n + 2n = -1 + 361 \quad | \text{ rearrange and combine like terms} \\
 \quad \square n = \square \quad | : \square \\
 \quad n = \square
 \end{array}$$

$$\begin{array}{l}
 \text{g) } 10n + 4 = 4 + 920 \quad | \text{ rearrange and combine like terms} \\
 \square n + \square = \square \quad | -\square \\
 \quad \square n = \square \quad | : \square \\
 \quad n = \square
 \end{array}$$

$$\begin{array}{l}
 \text{h) } 5c + 2c = 2c + 270 \quad | \text{ rearrange and combine like terms} \\
 \square c = \square c + \square \quad | -\square \\
 \quad \square c = \square \quad | : \square \\
 \quad c = \square
 \end{array}$$

$$\begin{array}{l}
 \text{i) } -5c + 147 = 1 + 1 \quad | \text{ rearrange and combine like terms} \\
 -\square c + \square = \square \quad | -\square \\
 \quad -\square c = \square \quad | : \square \\
 \quad c = \square
 \end{array}$$

Good Luck!