

Work on Spiral Review and have hw out (11).

3.  $-12 + 5k = 15 - 4k$

variable constant

$$\begin{array}{r|l} +4k & \\ \hline 3 & \\ \hline -12 + 9k & = 15 \\ +12 & \\ \hline 9k & = 27 \\ \div 9 & \\ \hline k & = 3 \end{array}$$

9.  $3x + 7 = 14 + 3x$

no solution

$$\begin{array}{r|l} -3x & \\ \hline 7 & = 14 \\ \hline \end{array}$$

6.  $22p + 11 = 4p - 7$

-1

$$\begin{array}{r|l} & \\ \hline & \\ \hline \end{array}$$

12.  $7(h + 3) = 6(h - 3)$

-39

$$\begin{array}{r|l} -6h & \\ \hline -5h + 21 & = 6h - 18 \\ -11h & = -39 \\ \div -11 & \\ \hline h & = 3 \end{array}$$

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15.  $3w - 6 + 2w = -2 + w$

1

$$\begin{array}{r|l} -w & \\ \hline 4w - 6 & = -2 + w \\ -4w & \\ \hline -6 & = -2 + w \\ +6 & \\ \hline 0 & = 4 + w \\ -4 & \\ \hline -4 & = w \end{array}$$

Determine whether each equation is an identity or whether it has no solution.

18.  $4(3m + 4) = 2(6m + 8)$

an identity

$$\begin{array}{r|l} & \\ \hline & \\ \hline \end{array}$$

21.  $-2(j - 3) = -2j + 6$

an identity

$$\begin{array}{r|l} -2j & \\ \hline -2j + 6 & = -2j + 6 \\ +2j & \\ \hline 6 & = 6 \end{array}$$

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Determine whether each equation is an *identity* or whether it has *no solution*.

24.  $-2(5.25 + 6.2x) = 4(-3.1x + 2.68)$

no solution

27.  $2.5(2z + 5) = 5(z + 2.5)$

an identity

$5z + 12.5 = 5z + 12.5$

30. Three times the sum of a number and 4 is 8 less than one-half the number. Write and solve an equation to find the number.

-8

Handwritten work for problem 30:

$$3(n + 4) = 0.5n - 8$$

$$-3n + 12 = -0.5n - 8$$

$$\frac{2.5n + 12}{2.5n} = \frac{-10}{2.5n}$$

Final answer circled: -8

33. **Writing** Describe the difference between an equation that is defined as an identity and an equation that has no solution. Provide an example of each and explain why each example is an identity or has no solution.

Because  $4x - 2 = 4x - 4 + 2$  is always true, the equation has infinitely many solutions and so it is an identity. Because  $3y + 10 = 3y + 15$  is never true, the equation has no solution.

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Work on worksheets as review for the equations quiz tomorrow.

You are to work a minimum of 7 problems from each side of the worksheet for a total of 14. Work must be shown on a separate sheet of paper set up with boxes.



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