

# Practice 1-6

## Solving Equations by Adding and Subtracting

Solve each equation. Check the solution.

1.  $x - 6 = -18$

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2.  $-14 = 8 + j$

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3.  $4.19 + w = 19.72$

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4.  $b + \frac{1}{6} = \frac{7}{8}$

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5.  $9 + k = 27$

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6.  $14 + t = -17$

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7.  $v - 2.59 = 26$

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8.  $r + 9 = 15$

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9.  $n - 19 = 26$

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10.  $14 = -3 + s$

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11.  $9 = d - 4.3$

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12.  $g - \frac{1}{4} = \frac{5}{8}$

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Write and solve an equation for each situation.

13. Yesterday Josh sold some boxes of greeting cards. Today he sold seven boxes. If he sold 25 boxes in all, how many did he sell yesterday?

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14. After Simon donated four books to the school library, he had 28 books left. How many books did Simon have to start with?

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15. Jana baked some muffins. After she served 13 of them to her friends for brunch, she had 17 left. How many muffins did she bake?

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16. A scuba diver descended to a depth of  $-22$  meters (or 22 meters below sea level). The ocean floor is at a depth of  $-71$  meters. How much farther would she need to descend to reach the ocean floor?

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Choose from  $-4, -3, -2, -1, 0, 1, 2, 3, 4$ . Find *all* the numbers that are solutions of each equation.

17.  $|x| = 2$

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18.  $5 + |x| = 9$

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19.  $|x - 1| = 3$

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