7. Solve by inspection.

a) $-8j = 64$

b) $5n = -25$

c) $-6 = \dfrac{k}{3}$

d) $\dfrac{x}{-11} = -4$

8. Use mental math to solve each equation.

a) $-12 = 3r$

b) $-16 = -4p$

c) $-30 = \dfrac{t}{2}$

d) $\dfrac{d}{-4} = 5$

9. Use models or diagrams to solve each equation.

a) $2k = -8$

b) $-3 = \dfrac{t}{4}$

10. Solve each equation using models or diagrams.

a) $3b = -15$

b) $\dfrac{x}{-3} = -3$

For help with #11 to #14, refer to Example 2 on page 373.

11. By what number would you divide both sides of the equation to solve it?

a) $-3x = 9$

b) $-36 = -4g$

c) $72 = -9t$

d) $4p = -8$

12. By what number would you divide both sides of the equation to solve it?

a) $-10 = 5w$

b) $-48 = -4c$

c) $4y = -400$

d) $-84 = -21b$

13. Solve each equation using the opposite operation. Check your answer.

a) $4s = -12$

b) $-156 = -12j$

c) $-4j = 104$

d) $-108 = -27t$

14. Use the opposite operation to solve each equation. Verify your answer.

a) $8f = -56$

b) $-5q = 45$

c) $-2h = -42$

d) $14k = -70$

For help with #15 to #18, refer to Example 3 on page 374.

15. By what number would you multiply both sides of the equation to solve it?

a) $13 = \dfrac{g}{-6}$

b) $\dfrac{m}{3} = -25$

c) $-6 = \dfrac{n}{-21}$

d) $\dfrac{z}{17} = 6$

16. By what number would you multiply both sides of the equation to solve it?

a) $\dfrac{s}{11} = 9$

b) $-6 = \dfrac{y}{-12}$

c) $\dfrac{w}{4} = -13$

d) $16 = \dfrac{x}{-3}$

17. Solve each equation using the opposite operation. Check your answer.

a) $\dfrac{t}{3} = -12$

b) $12 = \dfrac{h}{-10}$

c) $\dfrac{s}{-7} = 15$

d) $-63 = \dfrac{x}{-9}$

18. Use the opposite operation to solve each equation. Verify your answer.

a) $\dfrac{y}{5} = -4$

b) $-6 = \dfrac{k}{-8}$

c) $-1 = \dfrac{b}{10}$

d) $\dfrac{r}{12} = 15$