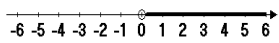
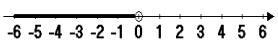


Chapter 2
Form E

Choose the correct answer to each problem.

1. $-9x - 15 = -30$
a. -5 b. 5 c. $-\frac{15}{9}$ d. $\frac{15}{9}$
2. $6x + 2 - 4x + 3 = 3x - 10$
a. 5 b. -15 c. 15 d. -5
3. $4 - (7z + 3) = 7z + 1$
a. $\frac{1}{2}$ b. 0 c. No solution d. All real numbers
4. $2(x + 4) = 8 + 2x$
a. 2 b. -2 c. No solution d. All real numbers
5. $\frac{x}{4} + 3 = 2 + \frac{x}{3}$
a. -12 b. 60 c. 12 d. -60
6. $2y + 3 - 7y = -4(y - 2) - y$
a. 5 b. 11 c. No solution d. All real numbers

For problems 7 – 10, choose the correct expression of the solution set.

7. $6x - 7 < -1$
a. $\{x \mid x < -1\}$ b. $\{x \mid x > -1\}$ c. $\{x \mid x > 1\}$ d. $\{x \mid x < 1\}$
8. $36 + 7x < 2(3x + 6) + 24$
a.  b. 
c. No solution d. $\{x \mid x \text{ is a real number}\}$

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9. $2x - (x + 1) \geq -3x + (7 + 4x)$

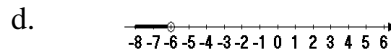
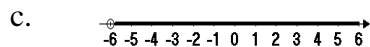
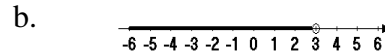
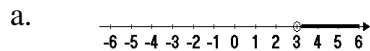
a. $\{x \mid x > 8\}$

c. No solution

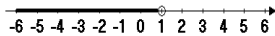
b. $\{x \mid x < -8\}$

d. $\{x \mid x \text{ is a real number}\}$

10. $4 - 6(3 - x) > 4(2 - x) + 8$



11. Use set-builder notation to describe the following graph.



a. $\{x \mid x > 1\}$

b. $\{x \mid x \geq 1\}$

c. $\{x \mid x < 1\}$

d. $\{x \mid x \leq 1\}$

12. Solve $I = Prt$ for r .

a. $r = I - P - t$

b. $r = IPt$

c. $r = \frac{I}{Pt}$

d. $r = I + P + t$

13. Solve $P = 2l + 2w$ for w .

a. $w = \frac{P - 2l}{2}$

b. $w = P - l$

c. $w = P - \frac{l}{2}$

d. $w = P - 2l - 2$

14. 27 is 12% of what number?

a. 225

b. 2.25

c. 3.24

d. 324

15. What is 87% of 1200?

a. 104,400

b. 1044

c. 13.8

d. 1379.3

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16. An angle's measure is 15° less than that of its complement. Find the measure of the angle.
a. 97.5° b. 37.5° c. 52.5° d. 82.5°
17. The product of -9 and a number, increased by 15 is -7 . Find the number.
a. -13 b. $\frac{22}{9}$ c. $-\frac{22}{9}$ d. $-\frac{8}{9}$
18. Two business addresses are consecutive even integers. If the sum of the addresses is $10,226$, what is the smaller integer?
a. 5112 b. 5110 c. 5116 d. 5114
19. A bank's monthly charge for a checking account is $\$5$ plus $\$0.03$ a check. If the total monthly charge for one account is $\$6.44$, how many checks were written?
a. 144 b. 11 c. 36 d. 80
20. A long distance telephone service charges $\$.08$ for the first minute and $\$.04$ for each minute thereafter. The cost, C , in cents, for a call lasting x minutes can be computed using the formula $C = 8 + 4(x - 1)$. How many minutes can you talk on the phone if you do not want the cost to exceed 100 cents, or $\$1$?
a. 24 b. 240 c. 0.75 d. 75