

Geometry Summer Work

Complete the sentence.

Indicate the answer choice that best completes the statement or answers the question.

1. 20 yd = ? ft

- a. 54 b. 60
c. 56 d. 62

2. 8955 cm = ? m

- a. 90 b. 895.5
c. 8.955 d. 89.55

3. 80 qt = ___ gal

Indicate the answer choice that best completes the statement or answers the question.

Find the probability.

4. A marble is randomly selected from a bag containing 9 black, 5 white, and 13 clear marbles. Find $P(\text{white})$. Round to the nearest percent if necessary.

- a. 39% b. 19%
c. 23% d. 33%

5. A person is randomly selected from a group consisting of 5 republicans, 11 democrats, and 14 independents. Find $P(\text{independent})$. Round to the nearest percent if necessary.

- a. 94% b. 47%
c. 37% d. 88%

Evaluate the expression.

6. $x - 1 + y$ if $x = -4$ and $y = -8$

- a. 5 b. 3
c. -11 d. -13

Solve the equation.

Indicate the answer choice that best completes the statement or answers the question.

7. $-26 + y = -29$

- a. -4 b. -1
c. -3 d. -55

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8. $4x - 10 = -42$

9. $\frac{x}{-6.6} + 3 = -13$

Solve the inequality.

Indicate the answer choice that best completes the statement or answers the question.

10. $-13t \geq 91$

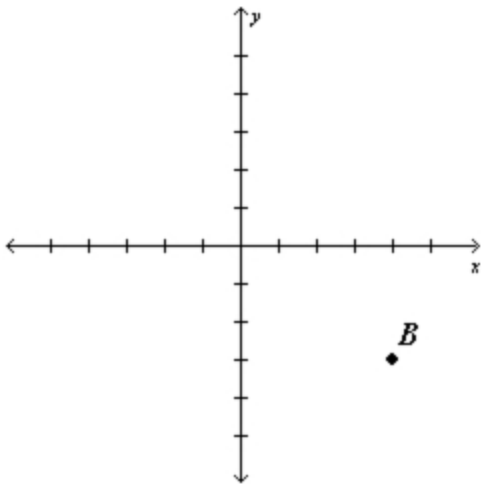
- a. $\{t \mid t \geq -12\}$ b. $\{t \mid t \geq -5\}$
c. $\{t \mid t \geq -7\}$ d. $\{t \mid t \geq 7\}$

11. $5h + 4 > 39$

Indicate the answer choice that best completes the statement or answers the question.

Find the point on a coordinate plane.

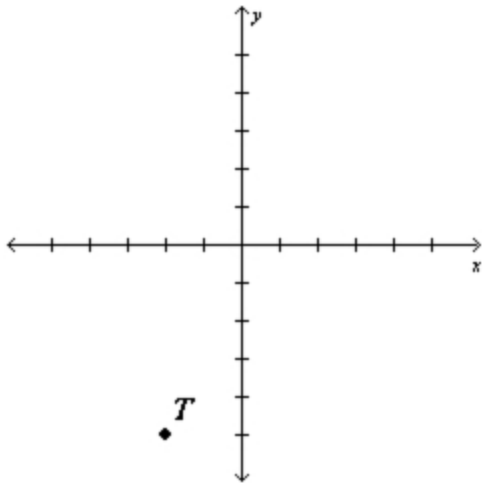
12. Find the ordered pair for point *B*.



- a. $(-4, -3)$ b. $(4, -3)$
c. $(4, 3)$ d. $(-4, 3)$

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13. Find the ordered pair for point T .



- a. (2, 5) b. (-2, 5)
 c. (-2, -5) d. (2, -5)

14. Name the quadrant in which point (4, 1) is located.

- a. II b. I
 c. III d. IV

Graph the system of equations. Then determine whether the system has no solution, one solution, or infinitely many solutions. If the system has one solution, name it.

15. $y = -4x + 2$

$y = x - 3$

Solve the system of equations.

16. $y = -3x + 14$

$-8x - 5y = -49$

Indicate the answer choice that best completes the statement or answers the question.

17. $3x + y = 2$

$2x + 3y = -1$

- a. (1, -1) b. (4, -1)
 c. (1, 0) d. (4, 0)

Geometry Summer Work*Simplify.**Indicate the answer choice that best completes the statement or answers the question.*

18. $\sqrt{63}$

- a. $3\sqrt{7}$ b. $3\sqrt{42}$
c. $3\sqrt{35}$ d. $3\sqrt{14}$

19. $\sqrt{8z^2y^3}$

20. $\sqrt{75z^3y^2}$

21. $\frac{9}{\sqrt{5}}$

22. $\frac{5}{\sqrt{3}}$

23. $\sqrt{\frac{2}{7}}$

24. $\frac{11\sqrt{2}}{-3 + \sqrt{3}}$

Solve for the situation.

25. A spool contains 15 feet of ribbon. How many meters are there?

26. A raffle sold 100 tickets numbered from 1 to 100. Jamie has all the even-numbered tickets in the fifties. If a ticket is drawn at random, what is his probability of winning?

27. A die is rolled. Find the probability of rolling a number divisible by 3.

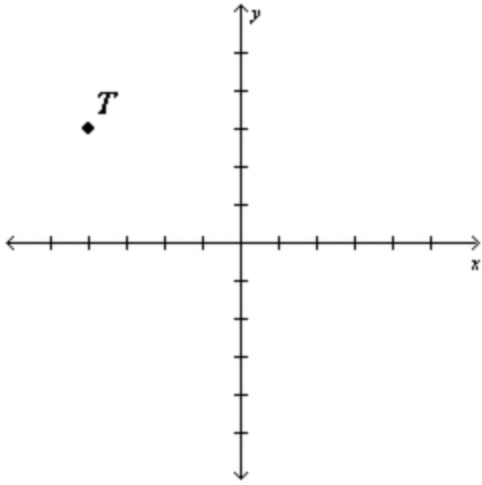
Solve the equation.

28. $5 - x = 9x$

29. $\frac{3}{4}t - 5 = \frac{1}{4}$

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Write the ordered pair for point T and name the quadrant in which it is located.
30.



Write four points that satisfy the equation.
31. $y = x - 5$

Name the polygon.
32. A polygon with the vertices $A(-2, 1)$, $B(4, 1)$, $C(2, -1)$, and $D(-4, -1)$.

33. Marc was solving $-8(d - 3) = 10$. He rewrote the equation as $-8d + 24 = 10$. What property did he use? Is he correct? Explain.

34. Write an inequality where the inequality symbol must be reversed to solve. Explain how you would solve it.

35. Katie said that if $a = 5$ the expression $3|a - 8| + 4$ would have the value of -5 . Is she correct? Explain.