Ocean Township High School – Mathematics Department

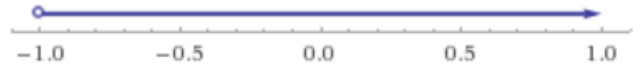Geometry Summer Assignment Answer Key

Answers:

1. 18
2. $\frac{22}{5}$ or $1\frac{7}{5}$
3. 18 steps
4. Various: Any answer that is either a decimal or a fraction that does not simplify to an integer. Examples: 2.3, ½ , etc
5. ± 10
6. 1
7. x = -43
8. X=4
9. About 38 miles per gallon
10. 1,105 boys
11. 160
12. 60 oz.
13. $x \geq 2$
14. X>6
15. Various: One example is the range of speed limits on major highways since some states have speed limits of only 55mph and some states do have speed limits of 80mph.
16. Various: One example is the temperature of an oven that is adjusted downward during the cooking time.
17. Various: One example is (1,7). Take any value and substitute for x and solve for y and make an ordered pair out of it.

18. y=x+3
19. Common difference is -7.
20. y-intercept=-3
21. -12 (the slope with the largest absolute value is the steepest)
22. $\frac{4}{5}$
23. y=2x-5
24. (1,3)
25. (-2,5)
26. Various: Example: (1,-4). Substitute any x value and solve for y. Then pick a y-value that satisfies the resulting inequality.
27. y^8
28. 9
29. $d^2 + 4d - 21$
30. $2 \cdot 3 \cdot 5^2$
31. $6x^2(x^2 + 2)$
32. $(3x - 1)units$
33. ± 14
34. 360 ways
35. 6

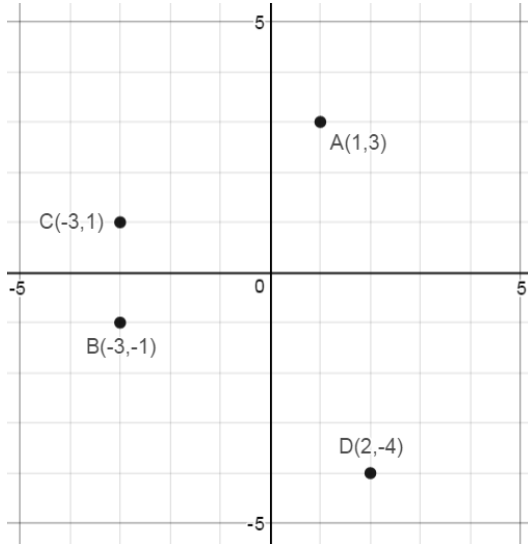36. 324

37. $9.01

38. $\pm 2\sqrt{10}$

39. $(d - 4)$

40.

41. $n + 11$

42. $c = 15 + 3m$

43. $k > -1$

44. h=27

45. x=29

46. Left-side triangle : obtuse;
    Right-side triangle: acute isosceles

47. ± 8

48. Nearest tenth: 9.0
    Nearest hundredth: 9.03

49. $x = 4\sqrt{3}$

50. Perimeter = 13 inches
    Area = 9 inches^2