

**SUMMER MATH: Complete if you will be taking Geometry next school year**

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Do not wait until the last minute to complete this assignment.**

**Answers will be posted the first week of August.**

**Bring this assignment with you the first day of class.**

**A test on this material will be given within the first two weeks of school. It will be the first test grade of the course in the first nine weeks of the school year.**

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**DIRECTIONS:**

- A) Refer to your Algebra 1 notebook or the internet for assistance. Do your own work.**
- B) Write neatly in pencil.**
- C) Show your work (step by step solutions). Circle your final answers.**
- D) Number all work.**
- E) Draw graphs on graph paper. Plot the points to the graph.**

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Complete the following tables:

Special Formulas

	Area	Perimeter
Rectangle	1.	2.
Square	3.	4.
Triangle	5.	6.
Circle	7.	8.

9. Area of a trapezoid: \_\_\_\_\_

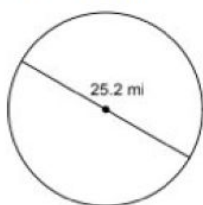
10. Area of a parallelogram: \_\_\_\_\_

Geometry Summer Math 2019-2020

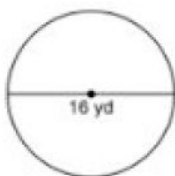
Lines:

	Formula
Slope	11.
Slope Intercept form of line	12.
Point Slope form of line	13
Standard form of linear equation	14.

15. Find the area of the circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.

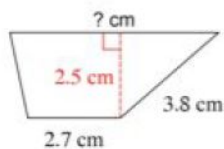


16. Find the circumference of the circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.



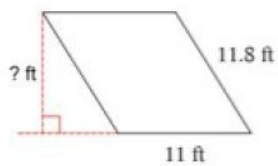
Find the missing measurement. Round your answer to the nearest tenth.

17.



Area = 11 cm<sup>2</sup>

18.



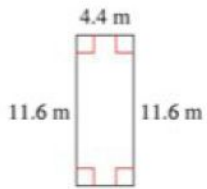
Area = 110 ft<sup>2</sup>

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Find the area and perimeter of each.

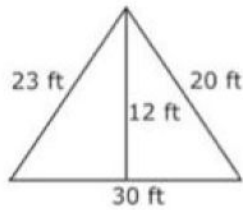
19. Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_



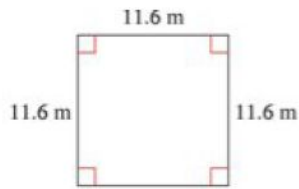
20. Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_



21. Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_



**Solve each equation.**

22.  $3y - 4 = 20$

23.  $5(z + 3) = 12$

24.  $44 = 5g - 8 - g$

25.  $3r - (2r + 1) = 21$

26.  $3n - 1 = 5n - 9$

27.  $3(x - 5) - (5x - 2) = 10$

28.  $\frac{2x+5}{3} = 21$

**Solve each proportion.**

29.

$$\frac{5}{3c} = \frac{2}{3}$$

30.

$$\frac{x-2}{4} = \frac{x+10}{10}$$

**Write the equation of a line in slope-intercept form for the lines with the given slope and point.**

31.  $m = \frac{2}{3}$  through  $(3, -4)$

32.  $m = -4$  through  $(1, -3)$

**Write the equation for the following lines through the given points.**

33.  $(3, -6)$  and  $(6, 2)$

34.  $(-7, 2)$  and  $(-3, 5)$

**Graph the following linear equations on graph paper.**

35.  $Y = -3x + 5$

36.  $Y = \frac{1}{2}x - 7$

37.  $3x + 5y = 15$

**Solve each inequality and graph its solution.**

38.  $29 - e < 31$

39.  $-1 - 5x > -7(1 + x)$

40.  $10 + 4n \geq 18$  or  $11n + 6 < -82$

41.  $5x - 8 \leq 52$  and  $12 - 4x \leq 0$

42.  $-6 + |4p| < 18$

43.  $|x + 4| > 2$

**Solve each system of equations by the substitution method.**

44.  $x = 8 + 3y$   
 $2x - 5y = 8$

45.  $x - 7y = 13$   
 $3x - 5y = 23$

**Solve each system of equations by the elimination method.**

46.  $3x + 4y = 9$   
 $-3x - 2y = -3$

47.  $4x - 6y = -26$   
 $-2x + 3y = 13$

48.  $2x - 8y = 24$   
 $3x + 5y = 2$

**Factor**

49.  $x^2 + 2x - 48$

50.  $6x^2 - 23x + 15$