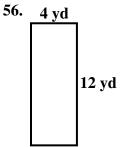
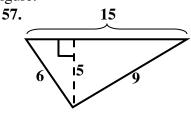
Geometry Chapter 1 Review ALWAYS KEEP!!!
1. 1 foot (ft) = inches (in)
3. 1 yard (yd) = feet (ft)
5. 1 mile (mi) = feet (ft)
7. The distance around a two-dimensional object is called the
8. A quantity that is measured in square units and expresses the size of a surface is called
9. The formula for the area of a square or rectangle is or
10. The height of a triangle is always to its base
11. The formula for the area of a triangle is
12. The distance from the center of the circle to its edge is called the
13. The distance across a circle passing through the center is the
14. The perimeter of a circle is more specifically called the
15. The symbol π is called, which is approximately equal to (\approx)
16. The formula for the circumference of a circle is
17. The formula for the area of a circle is
18. A has no dimension and is represented by a dot.
19. A is one-dimensional and is always straight.
20. Ais two-dimensional and is always flat.
21. Points are if they lie on the same line.
22. Points are if they lie on the same plane.
23. A is a portion of a line consisting of two endpoints.
24. A is a portion of a line that has one endpoint and extends into infinity in one direction.
25. Two geometric figures or cross if they share one or more points in common
26. Two lines are if they are coplanar, but do not intersect.
27. Two lines are if they intersect to form a right angle (90°) angle.
28. Two line are if they are noncoplanar and do not intersect.
29. A is a number that is only divisible by 1 and itself.
30. The first five primes are,, and
31. The symbol $\sqrt{}$ is called a
32. The most common radical in Geometry is the($\sqrt[2]{}$).
33. The is a method used to simplify radicals.
34. A segment running left and right can be referred to as a segment.
35. A segment running up and down can be referred to as a segment.
36. You can NOT count the length of a segment that runs

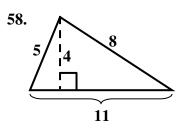
37. The distance formula is: _____ **38.** _____ means to cut in half. **39.** A ______ is a point on a segment that bisects the segment. **40.** The symbol for an angle is _____. **41.** The point where the two sides of an angle meet is called the ... **42.** The measure of an angle is written in units called _____. **43.** An angle can have a measure between ____ and ____ degrees. **44.** The four types of angle classifications are: ______, _____ and _____ **45.** The notation $m\angle ABC = 64^{\circ}$ means **46.** In Geometry, the word _____ (Symbol: ____) roughly means to be equal. 47. _____ are used on a diagram to show segments are congruent. **48.** _____ are used to show angles are congruent. **49.** Two angles are ______ if their measures add up to 90°. **50.** Two angles are if their measures add up to 180°. **51.** Two angles are _____ angles if their sides are formed by two intersecting lines, but they do not share a side in common. Vertical angles are ______ in measure. **52.** Two angles are a ______ if they share a side in common and their non-common sides form a straight angle. Angles that form a linear pair are supplementary or add up to _____.

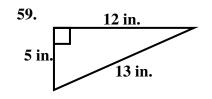
- **53.** 6 ft = _____ yd
- **54.** 98 in. = ____ ft
- **55.** 2 mi = ____ ft

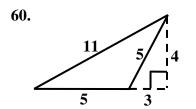
Find the perimeter and area of the figure.

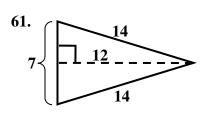




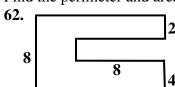




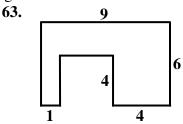


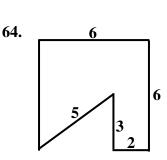


Find the perimeter and area of the figure.

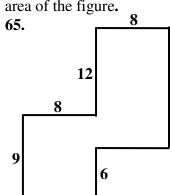


12



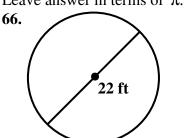


Find the perimeter and area of the figure.

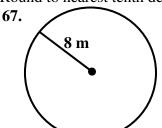


Find the circumference and area of the circle for #66 and #67.

Leave answer in terms of π .



Round to nearest tenth decimal place.



- **68.** The perimeter of a rectangle is 38 ft. and its length is 10 ft. Find the width.
- **69.** The area of a rectangle is 63 in.² and its height is 7 in. What is the length of the base?

- **70.** The area of a triangle is 48 m² and its base is 12 m. Find its height.
- **71.** The area of a triangle is 18 ft² and its height is 9 ft. Find the base.

- 72. The circumference of a circle is 32π square units. What is the radius?
- 73. The area of a circle is 49π mi². Find its circumference.

74. How many square inches are there in 1 square foot.

Find the area of the figure on the coordinate plane.

75. Ty

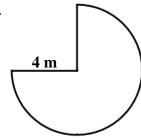
- **76.** The length of a rectangle is three more than twice the width. Given the perimeter is 36 ft, find the dimensions (width and length) of the rectangle.
- 77. A sewing club is making a quilt consisting of 25 squares with each side of the square 30 centimeters. If the quilt has five rows and five columns, what is the perimeter of the quilt?

Find the area of the figure. Leave answer in terms of π .

78.

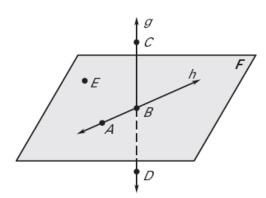


79.



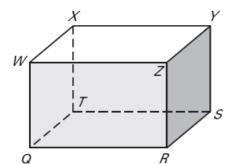
Use the diagram to the right to complete the following problems.

- **80.** Give two other names for \overrightarrow{AB} .
- **81.** Name three collinear points.
- **82.** Give another name for plane F.
- **83.** Give another name for \overline{CD} .
- **84.** Name three rays with endpoint B.
- **85.** Give another name for \overrightarrow{CD} .
- **86.** Name the intersection of plane F and \overrightarrow{CD} .



The figure to the right is a right prism. Complete each statement with parallel, perpendicular, or skew.

- **87.** \overrightarrow{WQ} and \overrightarrow{ZR} are ______.
- **88.** \overrightarrow{XY} and \overrightarrow{YS} are ______.
- **89.** \overrightarrow{WZ} and \overrightarrow{RS} are ______.
- **90.** \overrightarrow{QT} and \overrightarrow{XT} are ______.
- **91.** \overrightarrow{WQ} and \overrightarrow{TS} are ______.
- **92.** \overrightarrow{XY} and \overrightarrow{TS} are ______.
- **93.** \overrightarrow{YZ} and \overrightarrow{TQ} are ______.
- 94. Plane WXT and plane ZRS are ______
- **95.** Plane WXZ and plane XTS are ______.



96. Find the length of segment \overline{XY} given the coordinates of its endpoints.

$$X(1,7)$$
 $Y(-2,3)$

97. Find the distance between the endpoints of \overline{AB} .

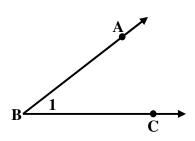
$$A(2,3)$$
 $B(4,-1)$

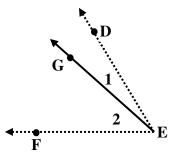
98. Find the midpoint of \overline{AB} given its endpoints.

$$A(2,4)$$
 $B(-3,6)$

99. Given the midpoint $M\left(-\frac{5}{2},1\right)$ and an endpoint F(2,-1) of \overline{FG} , find the other endpoint.

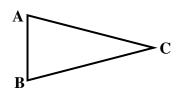
100. State all the different names for the angle. 101. State all the different names for the dotted angle.



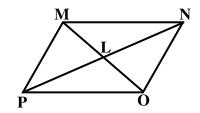


Shade the indicated angle.

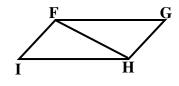
102. ∠ACB



103. ∠MLP



Label the diagram.



Classify each angle.

105.
$$m\angle ABC = 89^{\circ}$$

106.
$$m \angle 3 = 180^{\circ}$$

107. m
$$\angle$$
F = 90°

108.
$$m \angle XYZ = 152^{\circ}$$

109. B is between point A and C. Find BC.

$$AB = 2x + 10$$

$$BC = x - 4$$

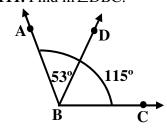
$$AC = 21$$

110. M is the midpoint \overline{AB} . Find AM.

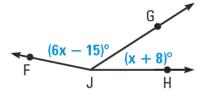
$$AM = x + 15$$

$$MB = 4x - 45$$

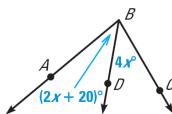
111. Find m∠DBC.



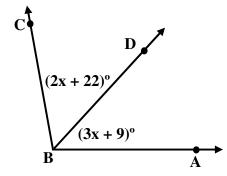
112. Given $m\angle FJH = 168^{\circ}$, find $m\angle FJG$.



113. \overrightarrow{BD} bisects $\angle ABC$. Find m $\angle ABC$.



114. \overrightarrow{BD} bisects $\angle ABC$. Find m $\angle ABC$.



115. $\angle C$ is a complement of $\angle D$. Find $m \angle C$. 116. $\angle A$ is a supplement of $\angle B$. Find $m \angle B$.

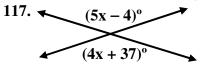
$$m\angle C = (15x + 3)^{\circ}$$

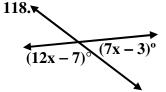
$$m\angle D = (5x - 13)^{\circ}$$

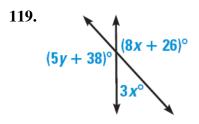
$$m\angle A = (6x + 72)^{\circ}$$

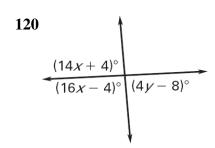
$$m\angle B = (2x + 28)^{\circ}$$

Find the value of the variable(s).









Answer Key:

1) 12 **2)** 10 **3)** 3 **4)** 100 **5)** 5,280 **6)** 1,000 **7)** perimeter **8)** area **9)** A = bh or A = ℓ w

10) perpendicular 11) $A = \frac{bh}{2}$ 12) radius 13) diameter 14) circumference 15) pi, 3.14

16) $C = 2\pi r$ 17) $A = \pi r^2$ 18) point 19) line 20) plane 21) collinear 22) coplanar

23) segment 24) ray 25) intersect 26) parallel 27) perpendicular 28) skew 29) prime

30) 2, 3, 5, 7, and 11 **31**) radical **32**) square root **33**) prime factor tree

34) horizontal **35)** vertical **36)** diagonally **37)** $d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$ **38)** Bisect **39)** midpoint

40) \angle **41**) vertex **42**) degrees **43**) 0° to 180° **44**) acute, obtuse, right, and straight

45) "The measure of angle ABC is 64 degrees."

46) congruent, ≅ **47**) Tick marks **48**) Arcs **49**) complementary **50**) supplementary **51**) vertical, equal

52) linear pair, 180° **53**) 2 yd **54**) $8\frac{1}{6}$ ft **55**) 10,560 ft **56**) P = 32 yd, A = 48 yd²

57) P = 30 units, $A = 37.5 \text{ units}^2$ **58**) P = 24 units, $A = 22 \text{ units}^2$ **59**) P = 30 in., $A = 30 \text{ in.}^2$

60) P = 21 units, $A = 10 \text{ units}^2$ **61**) P = 35 units, $A = 42 \text{ units}^2$ **62**) P = 56 units, $A = 80 \text{ units}^2$

63) P = 38 units, $A = 38 \text{ units}^2$ **64**) P = 28 units, $A = 30 \text{ units}^2$ **65**) P = 74 units, $A = 192 \text{ units}^2$

66) $C = 22\pi$ ft, $A = 121\pi$ ft² **67)** C = 50.2 m, A = 201.0 m² **68)** W = 9 ft **69)** b = 9 in.

70) h = 8 m **71**) b = 4 ft **72**) r = 16 units **73**) $C = 14\pi \text{ mi}$ **74**) $A = 144 \text{ in.}^2$ **75**) A = 14 units

76) w = 5 ft, $\ell = 13$ ft **77)** P = 600 cm **78)** A = 4π in.² **79)** A = 12π in.² **80)** \overrightarrow{BA} , line h

81) C,B,D **82**) Plane EAB **83**) \overline{DC} **84**) \overline{BC} , \overline{BA} , \overline{BD} **85**) \overline{CB} **86**) B **87**) parallel ||

88) perpendicular \perp 89) skew 90) perpendicular \perp 91) skew 92) parallel \parallel

93) parallel || **94**) parallel || **95**) perpendicular \perp **96**) XY = 5 **97**) AB = $2\sqrt{5}$ **98**) M $\left(-\frac{1}{2}, 5\right)$

99) G(−7,3) **100**) ∠1, ∠B, ∠ABC, ∠CBA **101**) ∠DEF, ∠FED

102) A 103) M 104) F G 105) acute 106) straight

107) right **108**) obtuse **109**) BC = 1 **110**) AM = 35 **111**) m \angle DBC = 62° **112**) m \angle FJG = 135°

113) $m\angle ABC = 80^{\circ}$ 114) $m\angle ABC = 96^{\circ}$ 115) $m\angle C = 78^{\circ}$ 116) $m\angle B = 48^{\circ}$ 117) x = 41

118) x = 10 **119**) x = 14, y = 20 **120**) x = 6, y = 24