Name: _____

Date: _____ Grade: _____

# SECTION QUIZ 4-2





**Remember:**
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



*Congratulations! You have completed this section!*
***Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 1.8 points.***

**1.** The measures of _____ (supplementary, complementary) angles add to 180°.

**2.** Angles whose measures add to 90° are _____ (supplementary, complementary) angles.

**3.** The symbol, $m\angle$, means the _____ of an angle.

**4.** Vertical angles are located on _____ (same, opposite) sides of intersecting lines.

**Determine if the following angles are complementary, supplementary, or neither. Write the answer on the blank beside each pair of angles.**

**5.** $m\angle ABC = 90°$ ; $m\angle DEF = 90°$ _____

**6.** $m\angle BCD = 75°$ ; $m\angle DEF = 15°$ _____

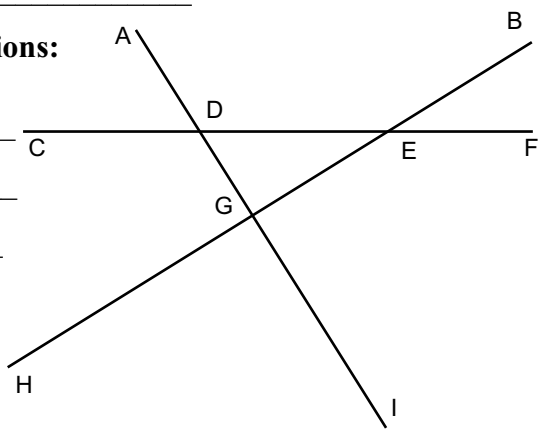
**7.** $m\angle FGH = 160°$ ; $m\angle ABC = 20°$ _____

**8.** $m\angle HIJ = 75°$ ; $m\angle BCD = 25°$ _____

**9.** $m\angle EFG = 45°$ ; $m\angle ABC = 35°$ _____

**10.** $m\angle FGH = 45°$ ; $m\angle IJK = 45°$ _____

**Look at the figure to the right and answer the questions: True or False for #11-15; fill in the blank for #16-18.**




**11.** $\angle ADC$ and $\angle DGE$ are vertical angles. _____

**12.** $\angle FEH$ and $\angle CEH$ are complementary. _____

**13.** $\angle BEF$ and $\angle BEC$ are supplementary. _____

**14.** $m\angle DGE + m\angle IGE = 180°$. _____

**15.** $m\angle BEF = m\angle CEH$. _____

**16.** Corresponding angles are _____ (congruent, incongruent).

**17.** The sum of the measures of interior angles of a transversal is _____ (90°, 180°).

**18.** If angles are congruent, then the measures of those angles are _____.
(a) equal (b) unequal (c) incongruent

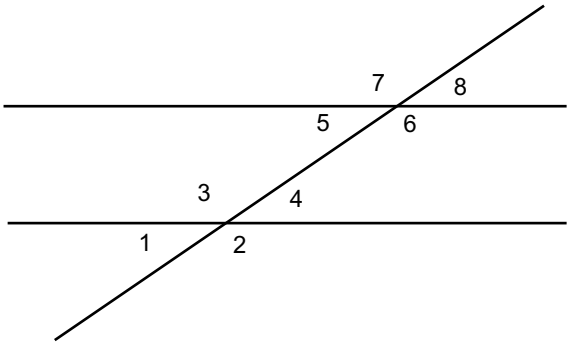
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# *SECTION QUIZ 4-2*



**Look at the figure to the right to answer questions #19-25. For #22-25, fill in the blanks with words from the parentheses: (vertical, corresponding, supplementary, alternate exterior, alternate interior, interior).**




**19.** $m\angle 1 + m\angle 2 =$ _____.

**20.** $m\angle 3$ _____ $m\angle 7$.

**21.** $m\angle 4$ _____ $m\angle 8$.

**22.** $\angle 5$ and $\angle 8$ are _____ angles.

**23.** $\angle 2$ and $\angle 6$ are _____ angles.

**24.** $\angle 4$ and $\angle 6$ are _____ angles.

**25.** $\angle 8$ and $\angle 1$ are _____ angles.

**26.** A _____ (polygon, polyhedron) is a simple closed surface composed of faces.

**27.** A(n) _____ is the set of all points, equidistant from a given point (center), as in a globe.

**28.** A _____ has six faces that are all squares.
(a) hexagon (b) rectangle (c) cube (d) square

**29.** A flat surface is known as a(n) _____.

**Matching (30-35).**

**30.** _____ 

**31.** _____ 

**32.** _____ 

**33.** _____ 

**34.** _____ 

**35.** _____ 

(a) cone
(b) cube
(c) rectangular prism
(d) triangular prism
(e) pyramid
(f) cylinder
(g) triangle

**36.** The number of sides of a pyramid is determined by the number of sides of the _____.

**37.** The number of faces of a solid is calculated by _____ (adding, subtracting) the number of bases and number of sides.

**38.** The face of a polyhedron or other polygon that is not a base is a(n) _____.

**39.** The total area of all the areas of the faces of a polyhedron is the _____ area of a solid.

**40.** Determining the surface area involves finding the area of various polygons and _____ (adding, multiplying) those areas together.

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# *SECTION QUIZ 4-2*



**41.** The formula for the area of a rectangle is _____ = _____.

**42.** The formula for the area of a triangle is _____ = _____.

**Find the surface area of the following solids. Show your work in the space provided and place your answer on the blank. (43-48)**

**43.** The surface area of a sphere of radius 4 is _____. (Use $\pi = 3.14$)

**44.** The surface area of a rectangular prism, 4 cm wide, 4 cm high, and 5 cm deep is _____.

**45.** A triangular prism, with bases in the shape of a triangle with a base of 6 in., two sides of 5 in. and a height of 4 in. and is 6 in. long. Calculate the surface area: _____.

**46.** The surface area of a square prism, 1 ft wide, 1 ft high, 4 ft long is _____.

**47.** The surface area of a sphere of diameter = 6 meters is _____.

**48.** The _____ height is the altitude or height of the face of a pyramid.

**49.** A replica of an Egyptian pyramid has a base measurement of 4 in. × 3 in. and a slant height of 4 in. The surface area of the replica is _____ sq in.

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**50.** A 6 ounce can of orange juice purchased at a local convenience store has a diameter of 2 inches and a height of 4 inches. The surface area of the can is _____ sq in.

**51.** A scientist used a triangular prism to deflect a beam of light in an experiment. The end of the prism had a height of 2 cm and a base measurement of 3 cm. The prism was 6 cm long. The surface area of the prism is _____.

**Match the Life Principles.**

**52.** _____ *"A person is known*

**53.** _____ *"You can easily calculate a person's responses*

**54.** _____ *"Two wrongs*

**55.** _____ *"People who work well together*

**56.** _____ *"A person of moral courage*

(a) *is steadfast and unmovable during temptation."*

(b) *do not make something right."*

(c) *are complements to each other."*

(d) *when he is known for honesty."*

(e) *by his actions."*

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