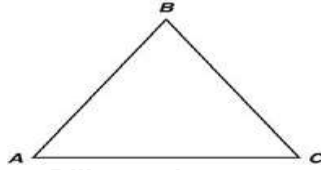


ELM_7th_Unit5_Pre

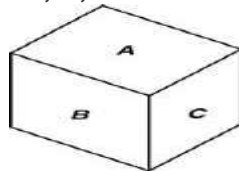
Class Set- Please Do Not Write on Test!

1. Billy is constructing a hexagon using triangles congruent to Triangle ABC .

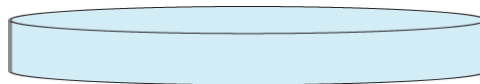


How many triangles does Billy need to construct this hexagon?

- A. Three B. Four C. Five D. Six
2. Which of the following triangles **CANNOT** be drawn?
- A. Scalene right triangle C. Equilateral right triangle
B. Acute isosceles triangle D. Obtuse isosceles triangle
3. Jessica is using popsicle sticks of different lengths to make geometric figures. She has one stick that is 4 centimeters long. Which combination of popsicle stick lengths could fit together with the 4-centimeter stick to make a triangle?
- A. 1 centimeter, 2 centimeters C. 1 centimeter, 4 centimeters
B. 1 centimeter, 3 centimeters D. 2 centimeters, 2 centimeters
4. Zachary folded a piece of paper at the upper corner to form a 70° angle. Which tool should Zachary use to determine the size of the angle on the fold he made?
- A. balance B. gauge C. protractor D. ruler
5. In the figure, what do Planes A , B , and C form at their intersection?

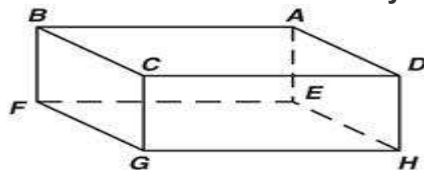


- A. a line B. a point C. a plane D. a square
6. A cylinder is shown.



Which figure could result from slicing the cylinder?

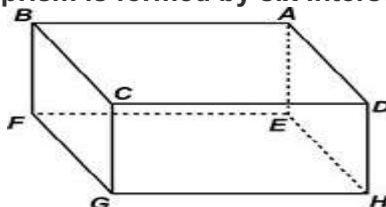
- A. Circle B. Triangle C. Hexagon D. Octagon
7. The rectangular prism shown below is formed by six intersecting planes.



Which of the following best describes the intersection of planes $CDHG$ and $ADHE$?

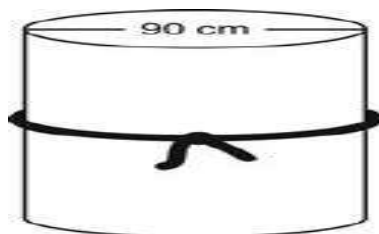
- A. Point D C. the line containing \overline{CD}
B. Point H D. the line containing \overline{DH}

8. A rectangular prism is formed by six intersecting planes.



What is the best description of the intersection of Planes $CDHG$ and $ABCD$?

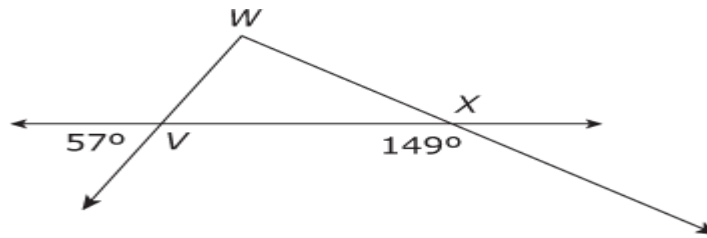
- A. Point C C. the line containing \overline{CG}
 B. Point D D. the line containing \overline{CD}
9. A rope wraps around the barrel as shown. Approximately 20 additional centimeters of the rope are used to tie the knot.



What is the approximate total length of the rope in centimeters?

- A. 161 B. 220 C. 303 D. 6378
10. Janet has a circular flower bed. The diameter of the flower bed is 6 feet. Which expression can be used to find the area in square feet of the flower bed?
- A. $2 \times \pi \times 3 \times 3$ B. $\pi \times 3 \times 3$ C. $\pi \times 6 \times 6$ D. $\pi \times 6$
11. Which statement best describes the relationship between the circumference and the diameter of a circle?
- A. The circumference is about 6 times the diameter.
 B. The circumference is about 3 times the diameter.
 C. The diameter is equal to the circumference.
 D. The diameter is 2 times the circumference.
12. A circle has circumference C and diameter d . Which expression is equivalent to π ?
- A. $C \times d$ B. $C \div d$ C. $d \div C$ D. $d - C$
13. Which term describes the relationship between $\angle A$ and $\angle B$ if the $m \angle A = 84^\circ$ and $m \angle B = 96^\circ$?
- A. vertical B. adjacent C. supplementary D. complementary
14. What is the supplement of the complement of x° if $0 < x < 90$?
- A. $(x - 90)^\circ$ B. $(x + 90)^\circ$ C. $(90 - x)^\circ$ D. $(180 - x)^\circ$
15. What is the supplement of an angle that measures 10° ?
- A. 190° B. 170° C. 100° D. 80°

16. Angle measures are shown in the figure.



What is the difference in the measures of angle WVX and angle WXV ?

- A. 26° B. 31° C. 33° D. 57°
17. A rectangular swimming pool has a length of 30 feet and a width of 12 feet. The pool is filled to a depth of 4 feet with water. What is the volume, in cubic feet, of the water in the swimming pool?
- A. 168 B. 360 C. 1056 D. 1440
18. The dimensions of a rectangular room are x feet by y feet. A rug is placed on the floor 1 foot from each wall of the room. What is the area of the rug, in square feet?
- A. xy B. $xy - 4$ C. $(x - 1)(y - 1)$ D. $(x - 2)(y - 2)$
19. The area of the doubles tennis court at a sports club is 261 square meters. What is this area in square centimeters?
- A. 0.000261 B. 0.0261 C. 26,100 D. 2,610,000
20. Joe plans to install a concrete driveway in front of his house. Which of these measurements best describes the volume of concrete in one truck load?
- A. 8 cubic feet
B. 8 cubic yards
C. 8 cubic kilometers
D. 8 cubic centimeters