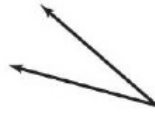


**M7 Chapter 7 Test - A**

(Agency score for notes \_\_\_/2)

Write the letter for the correct answer in the blank at the right of each question.

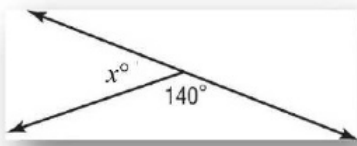
1. What is the classification of the angle shown?



- A. acute     B. right     C. straight     D. obtuse

~~A~~  
A

2. What is the value of  $x$  ?



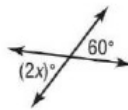
- A. 180    B. 90     C. 40    D. 8

$$\begin{array}{r} 180 \\ -140 \\ \hline 40 \end{array}$$

~~C~~  
C

3. What is the value of  $x$  in the figure at the right?

- A. 90    B. 60    C. 120    D. 30



$$\begin{array}{l} 2x = 60 \\ \hline x = 30 \end{array}$$

D

4. Angle 1 and angle 2 are supplementary. If  $m\angle 1 = 27^\circ$ , what is  $m\angle 2$  ?

- A.  $27^\circ$     B.  $63^\circ$      C.  $153^\circ$     D.  $163^\circ$

$$\angle 1 + \angle 2 = 180$$

$$\begin{array}{r} 180 \\ -27 \\ \hline 153 \end{array}$$

C

5. A building is 120 meters tall. A scale model of the building uses a scale of 1 centimeter = 6 meters. How tall is the model?

- A. 20 cm    B. 60 cm    C. 20 m    D. 60 m

$$\frac{1 \text{ cm}}{6 \text{ m}} = \frac{20 \text{ cm}}{120 \text{ m}}$$

A

6. On a map, the scale is 1 inch = 175 miles. What is the actual distance between two cities if the map distance is 4 inches?

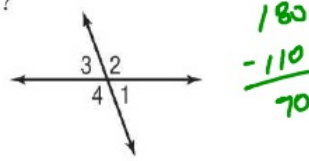
- A. 700 mi    C. 500 mi  
B. 129 mi    D. 800

$$\frac{1 \text{ in}}{175 \text{ mi}} = \frac{4 \text{ in}}{700 \text{ mi}}$$

A

7. In the figure at the right, what is  $m\angle 1$  if  $m\angle 2 = 110^\circ$ ?

- A.  $180^\circ$
- B.  $110^\circ$
- C.  $90^\circ$
- D.  $70^\circ$



D

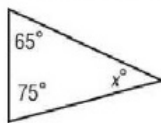
8. What is the classification of the triangle by its angles and by its sides?

- A. acute, equilateral
- B. right, equilateral
- C. obtuse, isosceles
- D. obtuse, equilateral



A

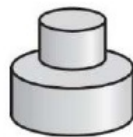
9. What is the value of  $x$  in the triangle?



$$\begin{array}{r} 65 \\ + 75 \\ \hline 140 \end{array} \qquad \begin{array}{r} 180 \\ - 140 \\ \hline 40 \end{array}$$

$40^\circ$

10. Draw a top, a side, and a front view of the solid.



Top view



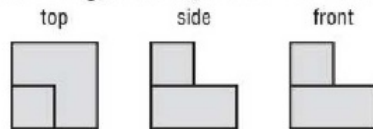
Side view



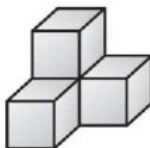
Front view



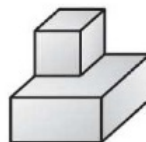
11. Which solid has the top, the side, and the front views given?



A.



B.

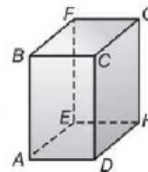


B

Use the figure shown on the right.

12. What is the classification of the figure?

- A. rectangular pyramid
- B. pentagonal prism
- C. rectangular prism
- D. pentagonal pyramid



C

13. Use the figure in problem 12 to identify the following:

A base, a face that isn't a base, two edges, two vertices

FACES  
ABCD

ABFE

CDHG

EFGH

EDGES  
 $\overline{AB}, \overline{AE}, \overline{AD}$

$\overline{BC}, \overline{BF}$

$\overline{CD}, \overline{CG}, \overline{FG}$

$\overline{EF}, \overline{EH}$

VERTICES  
A, B, C, D,

E, F, G, H

ADHE  
Base BCGF

Face ABFE

Two edges AB, BC

Two Vertices A, B