

Iowa End-of-Course Assessments

DRAFT

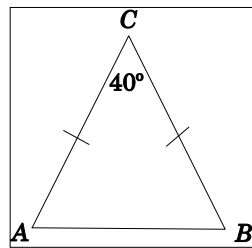
Geometry

Specifications

- A) Points, lines, and planes
- B) Triangles
 - 1) Properties
 - 2) Congruence and similarity
- C) Other polygons and solid figures
 - 1) Properties
 - 2) Perimeter, area, surface area, and volume
- D) Circles
- E) Transformations

Sample Items

1. Given isosceles $\triangle ABC$ shown below, what is the measure of $\angle CAB$?

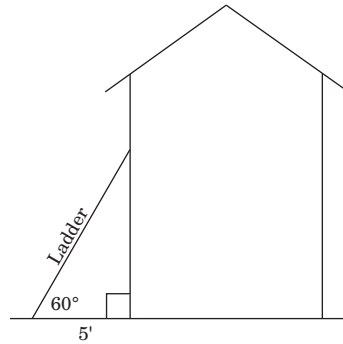


- A. 40°
- B. 60°
- C. 70°
- D. 140°

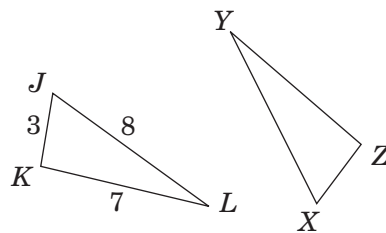
Geometry

Sample Items continued

2. A ladder is placed against a house so that the base is 5 feet from the house and forms a 60° angle. Which of the following can be used to find the length of the ladder (in feet)?



- A. $\frac{5}{\cos 60}$
- B. $\frac{5}{\sin 60}$
- C. $5(\cos 60)$
- D. $5(\sin 60)$
3. Given that $\triangle JKL \cong \triangle XYZ$, what is the length of \overline{YZ} ?



- A. 3
- B. 7
- C. 8
- D. Cannot be determined

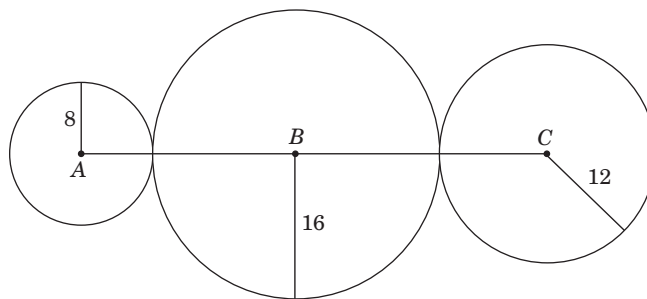
Geometry

Sample Items continued

4. If the area of a square is 25 cm^2 , what is its perimeter?

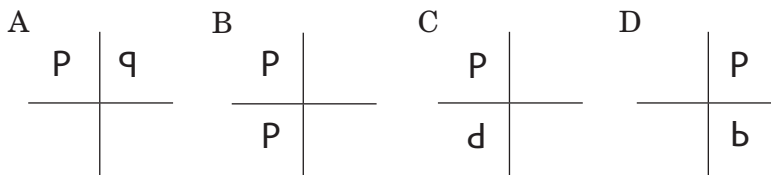
- A. 10 cm
- B. 20 cm
- C. 25 cm
- D. 50 cm

5. In the drawing below, given circles A , B , and C , what is the length of \overline{AC} ?



- A. 36
- B. 48
- C. 52
- D. 72

6. Which of the following represents a reflection over the x axis?



- A. A
- B. B
- C. C
- D. D