

TEST NAME: **Geometry EOG Stations Review**  
TEST ID: **2476016**  
GRADE: **08 - Eighth Grade**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **My Classroom**

Student: \_\_\_\_\_

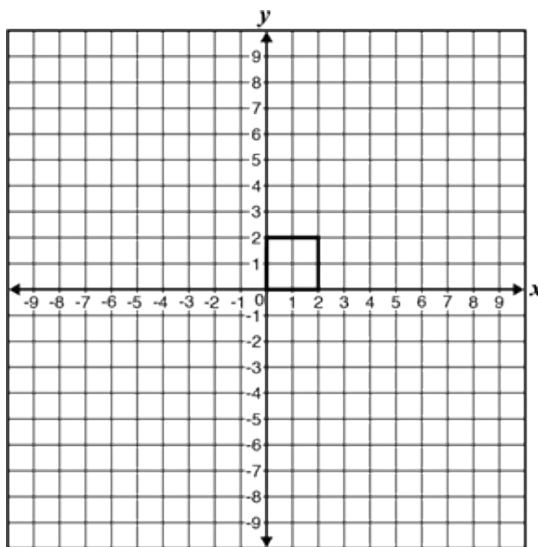
Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. The vertices of  $\triangle JKL$  have the following coordinates:  $J(1, 0)$ ,  $K(3, 4)$ ,  $L(1, 4)$ . If  $\triangle JKL$  is reflected over the  $x$ -axis, what are the new coordinates for Vertex  $L$ ?

- A.  $(1, -4)$
- B.  $(-1, 4)$
- C.  $(-1, -4)$
- D.  $(1, 4)$

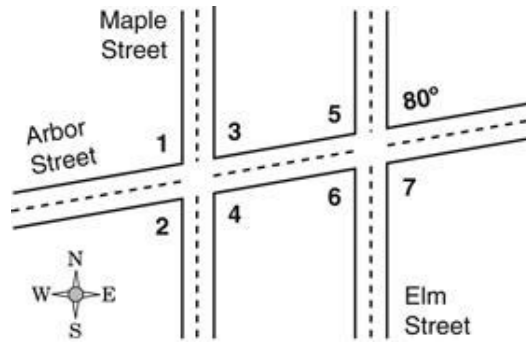
2. A square is dilated about the origin by a scale factor of 3.5.



What is a true statement about the dilation as compared to the original square?

- A. One of its vertices is located at  $(7, 0)$ .
- B. The perimeter is 7 times the perimeter of the original square.
- C. The area is 3.5 times greater than the area of the original square.
- D. The measure of each angle of the dilated figure is larger by a factor of 3.5.

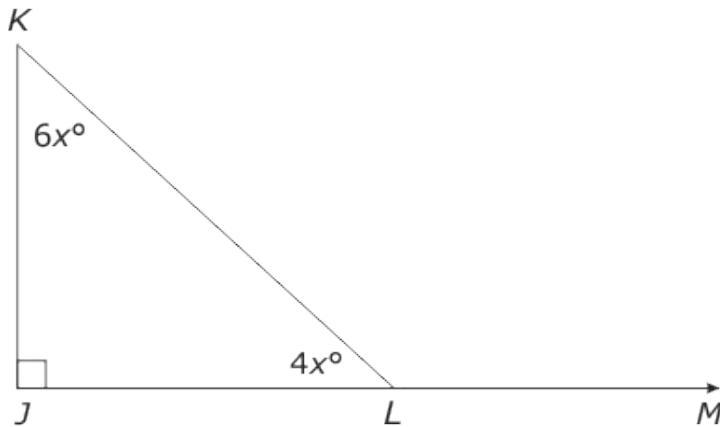
3. Maple Street and Elm Street are parallel to each other and both intersect Arbor Street.



Which statement is NOT true?

- A.  $m \angle 1 = m \angle 5$
- B.  $m \angle 3 = m \angle 6$
- C.  $m \angle 2 = 80^\circ$
- D.  $m \angle 4 = 80^\circ$

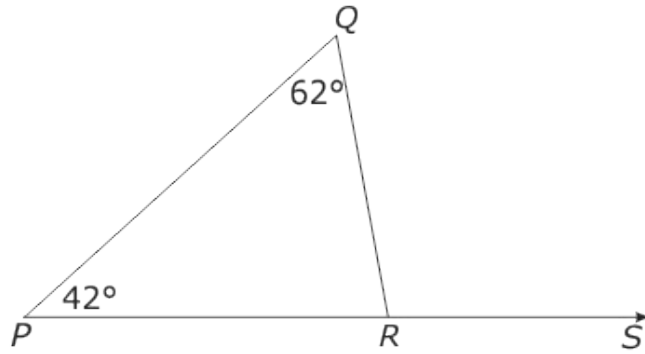
4. Right triangle  $JKL$  is shown below.



What is the measure of  $\angle KLM$ ?

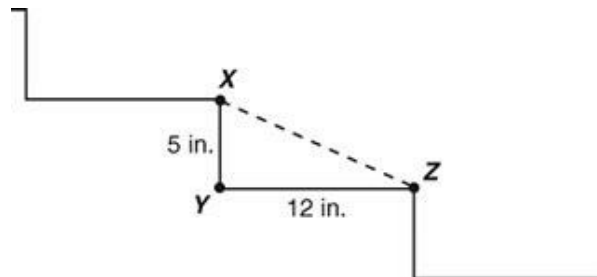
- A.  $120^\circ$
- B.  $126^\circ$
- C.  $135^\circ$
- D.  $144^\circ$

5. Triangle  $PQR$  is shown below.



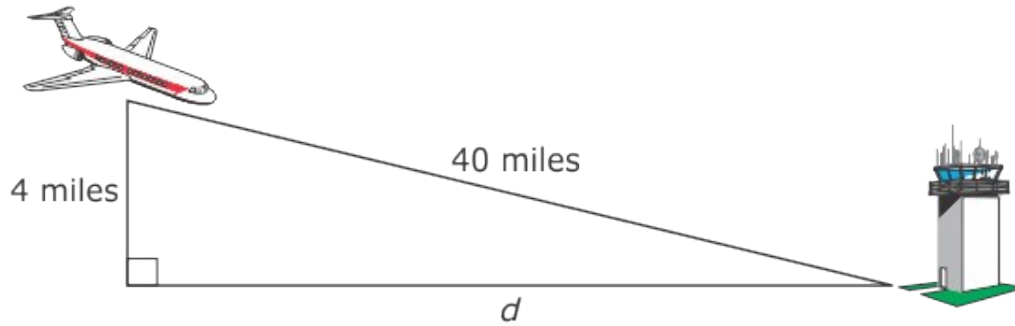
What is the measure of  $\angle QRS$ ?

- A.  $76^\circ$
  - B.  $104^\circ$
  - C.  $118^\circ$
  - D.  $138^\circ$
6. What is the length of  $\overline{XZ}$ ?



- A. 7 inches
- B. 13 inches
- C. 17 inches
- D. 25 inches

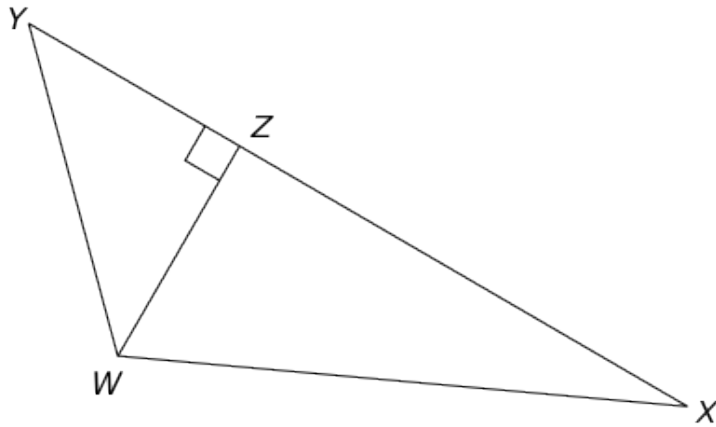
7. In the picture below, an airplane is 40 miles (air distance) from the airport and is at an elevation of 4 miles.



What is the **approximate** ground distance ( $d$ ) the airplane is from the airport?

- A. 20.4 mi
  - B. 36.0 mi
  - C. 39.8 mi
  - D. 44.0 mi
8. Which of the following could be the lengths of the sides of a right triangle?
- A. 5.1 cm, 3.4 cm, 8.5 cm
  - B. 5.1 cm, 6.8 cm, 8.5 cm
  - C. 5.1 cm, 8.5 cm, 8.5 cm
  - D. 5.1 cm, 6.8 cm, 10.2 cm
9. Mr. Lopez has a rectangular classroom that measures 36 feet by 28 feet. What is the **approximate** diagonal measurement of the room?
- A. 23 feet
  - B. 44 feet
  - C. 46 feet

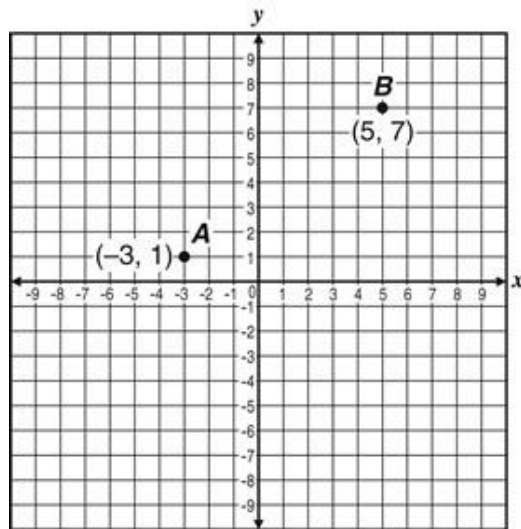
10. In triangle  $WXY$  below,  $XY$  measures 16 cm,  $YZ$  measures 4 cm, and  $WX$  measures 13 cm.



What is the area of triangle  $WXY$ ?

- A.  $40 \text{ cm}^2$
- B.  $60 \text{ cm}^2$
- C.  $80 \text{ cm}^2$
- D.  $100 \text{ cm}^2$

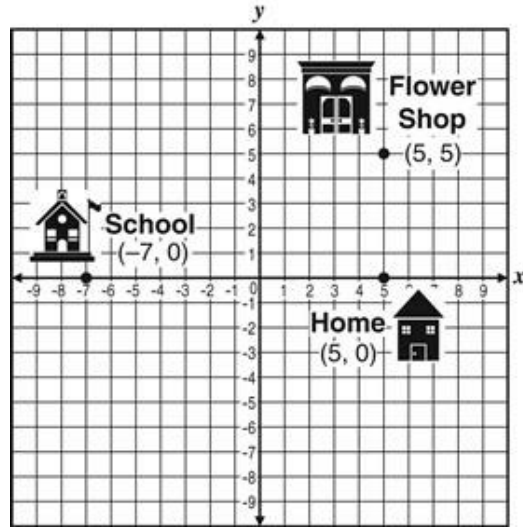
11. Point  $A$  and Point  $B$  are graphed on the grid below.



What is the distance between Point  $A$  and Point  $B$ , in units?

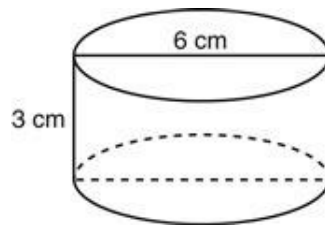
- A. 8 units
- B. 10 units
- C. 11 units
- D. 14 units

12. David departs from his home and travels directly to a flower shop and then directly to school. The locations are shown on the grid below, where each unit represents 1 mile.



What is the shortest distance between the flower shop and the school?

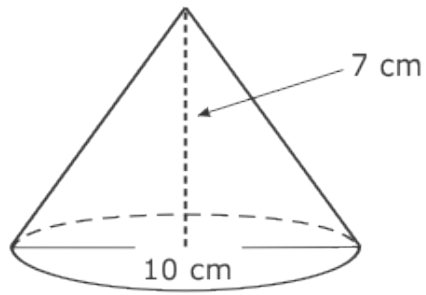
- A. 5 miles
  - B. 12 miles
  - C. 13 miles
  - D. 18 miles
13. What is the volume of this figure, in cubic centimeters?



- A.  $9\pi$
- B.  $18\pi$
- C.  $27\pi$
- D.  $36\pi$



14. What is the **approximate** volume of the cone below?



- A.  $70 \text{ cm}^3$
- B.  $183 \text{ cm}^3$
- C.  $549 \text{ cm}^3$
- D.  $733 \text{ cm}^3$

15. A soccer ball has a radius of 11 cm. Using  $\pi \approx 3.14$ , what is the approximate volume of the soccer ball in cubic centimeters?

- A. 1520
- B. 3135
- C. 4772
- D. 5572