

**Question 45**  
**Benchmark A**  
**Spring 2009**

Julie packs 8 toys into a box. Each toy weighs 12 ounces.

How many pounds do the toys in the box weigh?

- A. 6 pounds
- B. 8 pounds 12 ounces
- C. 9 pounds 6 ounces
- D. 12 pounds

**Question 12**  
**Benchmark A**  
**March 2008**

Tina helps raise the flag outside her school every morning.

Which unit is appropriate for describing the height of the flag after Tina raises it?

- A. meters
- B. cubic feet
- C. square feet
- D. square meters

**Question 19**  
**Benchmark A**  
**March 2006**

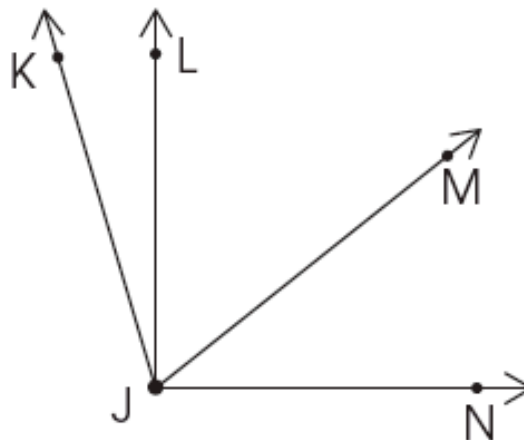
19. Bob covered a floor with carpet.

Which unit of measure describes how much carpet he used?

- A. inches
- B. feet
- C. square feet
- D. cubic inches

**Question 13**  
**Benchmark A**  
**Spring 2007**

13. Han compared the angles on this diagram.



Which angle appears to be greater than  $90^\circ$ ?

- A.  $\angle L J N$
- B.  $\angle M J N$
- C.  $\angle K J M$
- D.  $\angle K J N$

**Question 43**  
**Benchmark B**  
**March 2008**

Louis bought 6 gallons of milk for the soccer team. They drank 10 quarts of the milk.

How many quarts of milk were left over?

- A. 2 quarts
- B. 4 quarts
- C. 14 quarts
- D. 24 quarts

**Question 31**  
**Benchmark B**  
**March 2006**

A pickup truck weighs 3 tons.

How many pounds does the truck weigh?

- A. 600 pounds
- B. 2,000 pounds
- C. 3,000 pounds
- D. 6,000 pounds

**Question 38**  
**Benchmark B**  
**March 2006**

Peter's goal is to read 5 hours every school week. He reads every evening during the school week and records his time in the chart shown.

**Peter's Reading Time**

Day	Time Read
Monday	30 minutes
Tuesday	1 hour 15 minutes
Wednesday	1 hour 5 minutes
Thursday	40 minutes
Friday	?

In your **Answer Document**, determine how much time Peter should read on Friday to meet his goal. Show or explain how you found your answer.  
(2 points)

**Question 30**  
**Benchmark B**  
**Spring 2007**

Julia ran a 6-kilometer race on a 400-meter oval track.

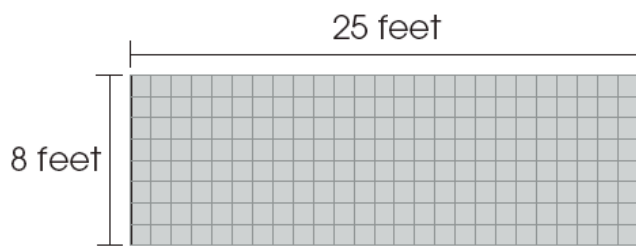
How many laps around the track did Julia run?

- A. 0.15 lap
- B. 1.5 laps
- C. 15 laps
- D. 150 laps

5<sup>th</sup> Grade Mathematics Ohio Achievement Test  
Measurement

**Question 5**  
**Benchmark C**  
**March 2008**

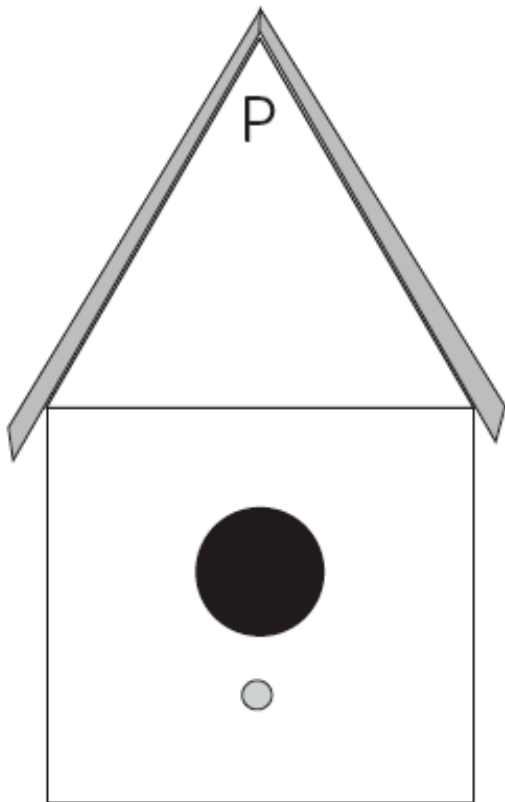
A rectangle is shown.



In your **Answer Document**, find the area and the perimeter of the rectangle. Show your work. Label the area and the perimeter with the appropriate units. (2 points)

**Question 24**  
**Benchmark C**  
**March 2008**

Maria drew this design for a bird house.

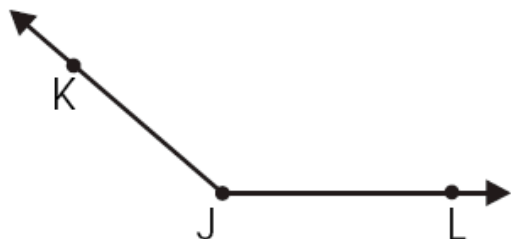


About how many degrees does angle P appear to be?

- A.  $30^\circ$
- B.  $60^\circ$
- C.  $90^\circ$
- D.  $120^\circ$

**Question 9**  
**Benchmark C-D**  
**March 2006**

9. Angle KJL is shown.



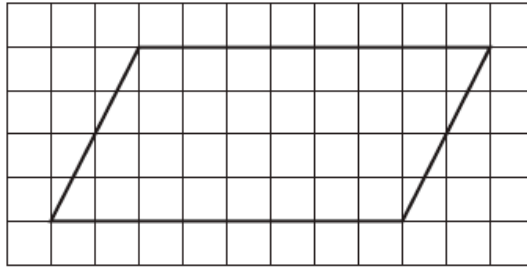
Use your protractor to find the measure of angle KJL.

- A.  $60^\circ$
- B.  $80^\circ$
- C.  $140^\circ$
- D.  $160^\circ$

5<sup>th</sup> Grade Mathematics Ohio Achievement Test  
Measurement

**Question 8**  
**Benchmark C**  
**Spring 2007**

8. A parallelogram is shown on the grid.



= 1 unit

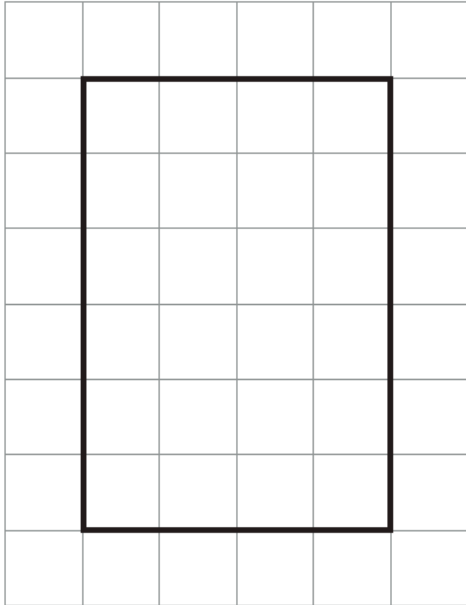
Which expression represents the area of this parallelogram?

- A.  $6 + 6 + 4 + 4$
- B.  $8 + 8 + 4 + 4$
- C.  $6 \times 4$
- D.  $8 \times 4$

5<sup>th</sup> Grade Mathematics Ohio Achievement Test  
Measurement

**Question 4**  
**Benchmark E**  
**March 2006**

4. Joe is putting a low fence around all four sides of a rectangular flower bed. The flower bed is 4 feet wide and 6 feet long.



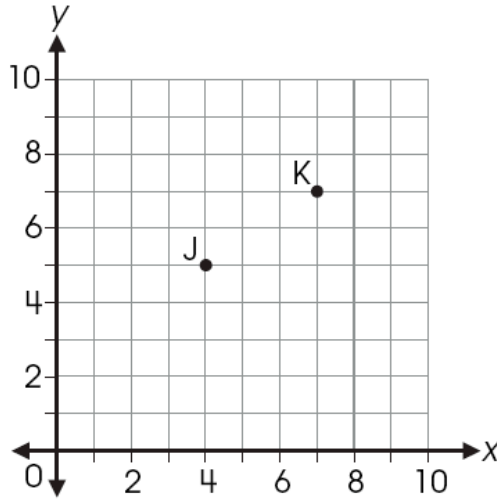
Each section of fencing is 2 feet long. How many sections of fencing will Joe need?

- A. 10 sections
- B. 20 sections
- C. 24 sections
- D. 40 sections



**Question 34**  
**Benchmark E**  
**March 2006**

34. Point J and point K are shown on the grid.



What is the direction from point J to point K along the grid lines?

- A. 3 units right and 2 units up
- B. 3 units right and 3 units up
- C. 4 units right and 3 units up
- D. 4 units right and 2 units up

**Question 38**  
**Benchmark E**  
**March 2006**

38. Peter's goal is to read 5 hours every school week. He reads every evening during the school week and records his time in the chart shown.

**Peter's Reading Time**

Day	Time Read
Monday	30 minutes
Tuesday	1 hour 15 minutes
Wednesday	1 hour 5 minutes
Thursday	40 minutes
Friday	?

In your **Answer Document**, determine how much time Peter should read on Friday to meet his goal. Show or explain how you found your answer.  
(2 points)

**Question 46**  
**Benchmark E**  
**Spring 2007**

46. A florist sells roses in bunches of 12. He sold four bunches and has 36 roses left at the end of the day.

Which expression represents the number of roses he had at the beginning of the day?

- A.  $4 + 12 + 36$
- B.  $4 \times 12 + 36$
- C.  $4 + 12 - 36$
- D.  $4 \times 12 - 36$

**Question 30**  
**Benchmark G**  
**Spring 2009**

— Yoko marked off a playing field for a game.

Which could be a measure of the area of the playing field?

- A. 100 feet long
- B. 300 feet around
- C. 5,000 square feet
- D. 5,000 cubic feet

**Question 2**  
**Benchmark G**  
**March 2008**

Dan wraps a box with paper.

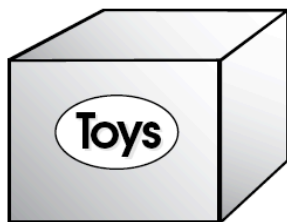
What should Dan measure to determine the amount of paper he needs to wrap the box?

- A. circumference
- B. perimeter
- C. surface area
- D. volume

5<sup>th</sup> Grade Mathematics Ohio Achievement Test  
Measurement

**Question 25**  
**Benchmark G**  
**March 2006**

25. Justin keeps his toys in a box like the one shown.



In your **Answer Document**, explain the difference between the volume and the surface area of the box. (2 points)