

Daily MCAS

2008 Mathematics MCAS – Grade 7

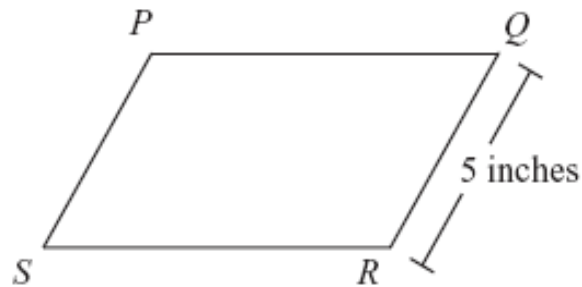
The base of a juice glass is in the shape of a circle with a diameter of 5 centimeters. Which of the following is closest to the circumference of the base of the juice glass? (Use 3.14 for π .)

- A. 15.7 centimeters
- B. 19.6 centimeters
- C. 31.4 centimeters
- D. 78.5 centimeters

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The perimeter of the parallelogram shown below is 24 inches.



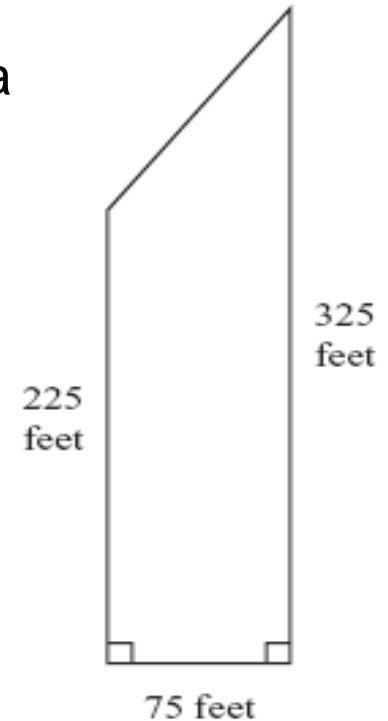
Based on the given dimensions of the parallelogram, what is the length of side SR ?

- A. 4.8 inches B. 7 inches C. 9 inches D. 9.5 inches

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A new house was built on a lot in the shape of a trapezoid as shown in the figure.



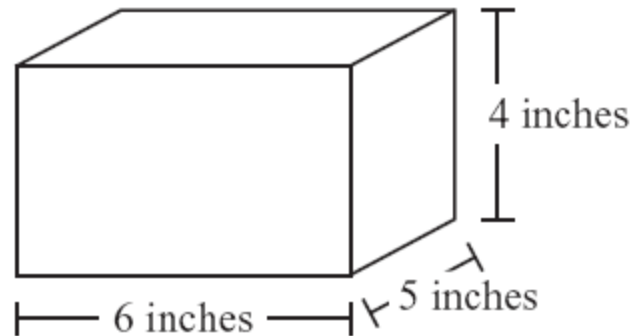
What is the area of the trapezoid?

- A. 16,875 square feet
- B. 17,200 square feet
- C. 20,625 square feet
- D. 24,375 square feet

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Ray had a block of wood in the shape of a rectangular prism. The block and its dimensions are shown below.



Front

Ray painted the front face of the block red. What is the area, in square inches, of the face he painted red? Show or explain how you got your answer.

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The floor of a daycare center is a rectangle that is 36 feet by 27 feet. The floor needs to be covered by foam mats. Each foam mat measures 3 feet by 3 feet.

How many foam mats are needed to completely cover the floor with no overlaps?

- A. 108 B. 126 C. 162 D. 324