

**MCAS Mathematics - Grade 8 - Week of April 27**

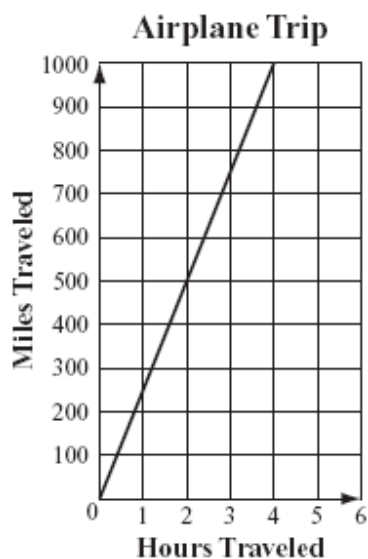
**Question 3: Multiple-Choice**

**Reporting Category: Measurement**

Standard: 8.M.5



The graph below shows the distance an airplane traveled over time.



Which of the following is closest to the average speed of the airplane?

- A. 100 miles per hour
- B. 250 miles per hour
- C. 500 miles per hour
- D. 1000 miles per hour

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**2007, Mathematics - Grade 8**

**Question 8: Short-Answer**

**Reporting Category: Measurement**

Standard: 8.M.1



A large jet has a wingspan of  $87\frac{1}{3}$  yards, as shown below.



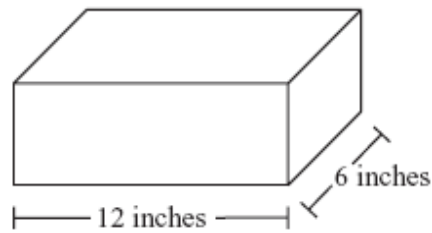
What is the wingspan, in feet, of the jet?

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**2007, Mathematics - Grade 8**  
**Question 19: Short-Answer**  
**Reporting Category: Measurement**  
Standard: 8.M.3



A shipping box is in the shape of a rectangular prism, as shown below.



- It has a length of 12 inches.
- It has a width of 6 inches.
- It has a volume of 288 cubic inches.

What is the height, in inches, of the shipping box?

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**2007, Mathematics - Grade 8**  
**Question 29: Open-Response**  
**Reporting Category: Measurement**  
Standard: 8.M.3

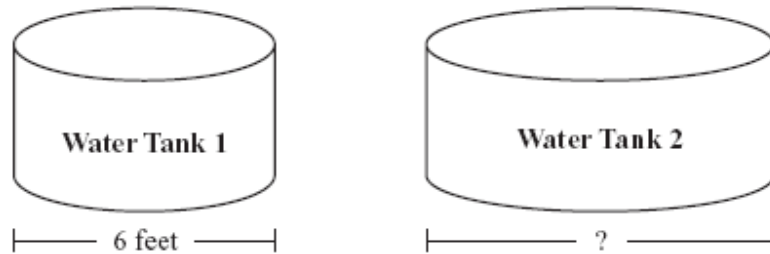


A rancher has two water tanks.

- Each water tank is in the shape of a cylinder.

- The base of each water tank is in the shape of a circle.

Diagrams of the two water tanks are shown below.



- What is the circumference, in feet, of the base of Water Tank 1? Show or explain how you got your answer. (Use 3.14 for  $\pi$ .)
- The circumference of the base of Water Tank 2 is 6.28 feet longer than that of Water Tank 1. What is the diameter, in feet, of the base of Water Tank 2? Show or explain how you got your answer. (Use 3.14 for  $\pi$ .)
- How many more square feet does the base of Water Tank 2 cover than the base of Water Tank 1? Show or explain how you got your answer. (Use 3.14 for  $\pi$ .)

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