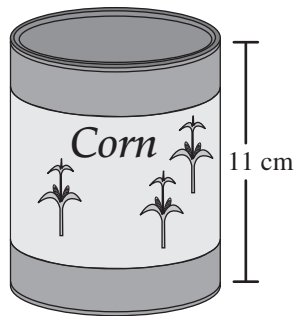


Session 2, Multiple-Choice Questions



- 33 The can of corn shown below is a right circular cylinder with a height of 11 cm. The volume of the can is 486 cubic centimeters.



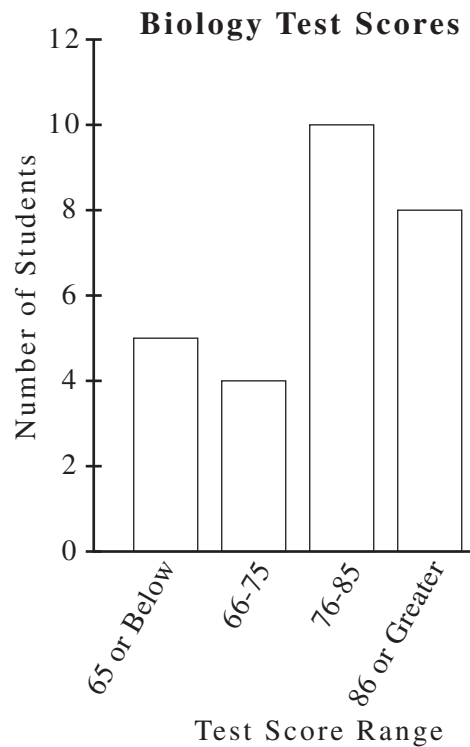
What is the approximate radius of the can of corn?

- A. 1.3 cm
- B. 3.8 cm
- C. 7.0 cm
- D. 14.1 cm

Reporting Category for Item 33: *Number Sense and Operations*

## Mathematics, Grade 10

- 34 The bar graph below shows the distribution of scores on a biology test.



Based on the graph, which of the following is **not** a valid conclusion?

- A. The total number of students tested was 27.
- B. At least 5 students scored fewer than 60 points.
- C. A total of 9 students scored 75 points or fewer.
- D. At least 8 students scored more than 80 points.

Reporting Category for Item 34: **Data Analysis, Statistics, and Probability**

## Mathematics, Grade 10

- 35 The lengths of three sides of a triangle are 5, 9, and  $x$ , all measured in centimeters. What are all possible values of  $x$ ?

- A.  $4 < x < 14$
- B.  $0 < x < 14$
- C.  $5 < x < 15$
- D.  $3 < x < 9$

*Reporting Category for Item 35: Geometry*

- 36 A set contains the numbers

$$\frac{8}{2}, -2.3, 0, \frac{2}{7}, \sqrt{9}, 0.\overline{31}, \sqrt{15}, -12, 2\pi.$$

Which of the following statements is true?

- A. The set contains 8 irrational numbers.
- B. The set contains 7 irrational numbers.
- C. The set contains 3 irrational numbers.
- D. The set contains 2 irrational numbers.

*Reporting Category for Item 36: Number Sense and Operations*