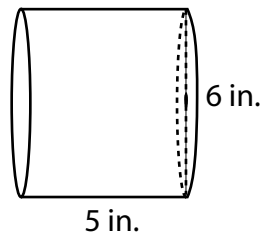


Test
2

Practice Achievement Test

42. What is the approximate volume of this cylinder?
Use 3.14 for π .



- A. 47.1 in.³
 - B. 94.2 in.³
 - C. 141.3 in.³
 - D. 565.2 in.³
43. Look at the sequence below.

$$3, 2, 1\frac{1}{3}, \frac{8}{9}, \dots$$

What is the next number in the sequence?

- A. $\frac{2}{9}$
- B. $\frac{4}{9}$
- C. $\frac{16}{27}$
- D. $\frac{2}{3}$

Go to next page 

Practice Achievement Test

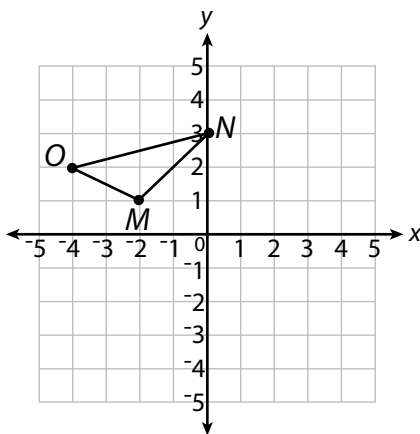
**Test
2**

44. What is the value of the following expression?

$$\frac{1}{4}(2 \times 3)^3 - 5 \times 6$$

- A. 18
- B. 24
- C. 294
- D. 834

45. Look at $\triangle MNO$.



In your **Answer Document**, draw $\triangle MNO$ dilated by a scale factor of -2 to form $\triangle PQR$. Then rotate $\triangle PQR$ by 90° clockwise about the origin to form $\triangle STU$. Explain the relationships between the three triangles using the terms *congruent* and *similar*.

For question 45, respond completely in your **Answer Document**. (4 points)

