

SECTION 3: MATH TEST—NO CALCULATOR 

25 MINUTES—20 QUESTIONS


TURN TO SECTION 3 OF YOUR ANSWER SHEET TO ANSWER THE QUESTIONS IN THIS SECTION.

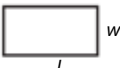
**DIRECTIONS:** For **Questions 1–15**, solve each problem, select the best answer from the choices provided, and fill in the corresponding circle on your answer sheet. For **Questions 16–20**, solve the problem and enter your answer in the grid on the answer sheet. The directions **before Question 16** will provide information on how to enter your answers in the grid.

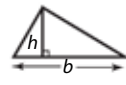
**ADDITIONAL INFORMATION:**

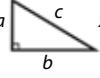
1. The use of a calculator in this section is **not permitted**.
2. All variables and expressions used represent real numbers unless otherwise indicated.
3. Figures provided in this test are drawn to scale unless otherwise indicated.
4. All figures lie in a plane unless otherwise indicated.
5. Unless otherwise specified, the domain of a given function  $f$  is the set of all real numbers  $x$  for which  $f(x)$  is a real number.

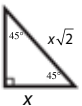
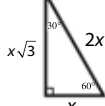
**Reference Information**

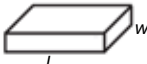
**Circle:**   
 $C = 2\pi r$   
 $A = \pi r^2$


**Rectangle:**   
 $A = lw$

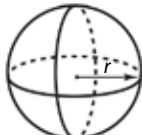
**Triangle:**   
 $A = \frac{1}{2}bh$

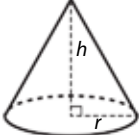
  
 $a^2 + b^2 = c^2$

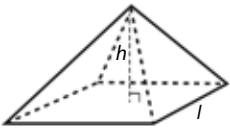
**Special Right Triangles:**   


**Rectangular Solid:**   
 $V = lwh$

**Cylinder:**   
 $V = \pi r^2 h$

**Sphere:**   
 $V = \frac{4}{3}\pi r^3$

**Cone:**   
 $V = \frac{1}{3}\pi r^2 h$

**Rectangular-Based Pyramid:**   
 $V = \frac{1}{3}lwh$

The number of degrees of arc in a circle is 360.  
 The number of radians in the arc of a circle is  $2\pi$ .  
 The sum of the measures in degrees of the angles of a triangle is 180.

  
 CONTINUE