SECTION 5
Time — 25 minutes
20 Questions

Turn to Section 5 (page 5) of your answer sheet to answer the questions in this section.

Directions: For this section, solve each problem and decide which is the best of the choices given. Fill in the corresponding circle on the answer sheet. You may use any available space for scratch work.

Notes

1. The use of a calculator is permitted.
2. All numbers used are real numbers.
3. Figures that accompany problems in this test are intended to provide information useful in solving the problems. They are drawn as accurately as possible EXCEPT when it is stated in a specific problem that the figure is not drawn to scale. All figures lie in a plane unless otherwise indicated.
4. Unless otherwise specified, the domain of any function f is assumed to be the set of all real numbers x for which $f(x)$ is a real number.
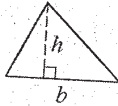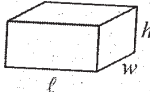
Reference Information

$A = \pi r^2$
$C = 2\pi r$
$A = \ell w$
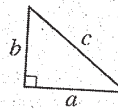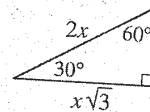$A = \frac{1}{2}bh$
$V = \ell wh$
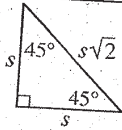$V = \pi r^2 h$
$c^2 = a^2 + b^2$
Special Right Triangles

The number of degrees of arc in a circle is 360.
The sum of the measures in degrees of the angles of a triangle is 180.

1. Sally's class has a reading list that consists of 5 novels and 2 biographies. Sally will select one novel and one biography from the reading list to complete an assignment. How many different selections of a novel and a biography are possible?

(A) Three
(B) Five
(C) Seven
(D) Ten
(E) Twenty

2. If $\sqrt{x-5} = 10$, then $x =$

(A) 75
(B) 95
(C) 105
(D) 125
(E) 225