MATHEMATICS TEST
60 Minutes – 60 Questions

DIRECTIONS: Solve each problem, choose the correct answer, and then darken the corresponding oval on your answer sheet.

Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left for this test.

You are permitted to use a calculator on this test. You may use your calculator for any problems you choose, but some of the problems may best be done without using a calculator.

NOTE: Unless otherwise stated, all of the following should be assumed:

1. Illustrative figures are NOT necessarily drawn to scale.
2. Geometric figures lie in a plane.
3. The word *line* indicates a straight line.
4. The word *average* indicates arithmetic mean.

3. If 3 times a number x is added to 12, the result is negative. Which of the following gives the possible value(s) for x?
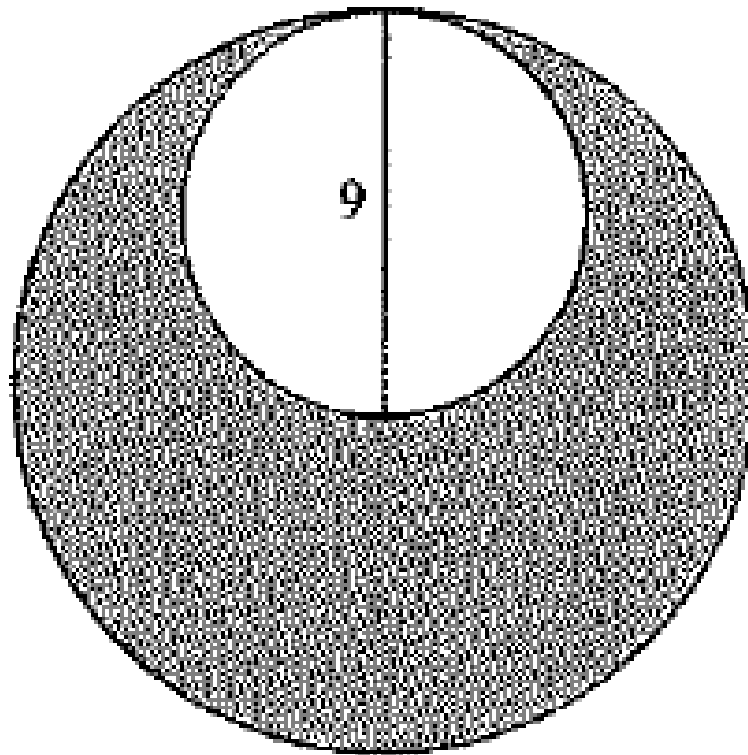
F.   All x > 4

G. All x < – 4

H. 36 only

J.   4 only

K.   0 only

4. The figure below shows 2 tangent circles such that the 9 – inch diameter of the smaller circle is equal to the radius of the larger circle. What is the approximate area, in square inches, of the shaded region?

A. 28.27

B. 56.55

C. 63.62

D. 190.76

E. 254.47

Answers

3. G
4. D