

**SOL Mini-Challenge****Expressions and Operations  
A.3****Read and solve.**

1. Which is closest to the value of  $x$  if  $x = 3\sqrt{11} + 4\sqrt{11}$  ?

- F. 13.6
- G. 23.2
- H. 77
- J. 132

2. The height of an equilateral triangle can be determined by evaluating the expression

$\frac{n\sqrt{3}}{2}$  where  $n$  is the length of a side of the triangle. To the nearest tenth of an inch, what is the height of an equilateral triangle with sides of 6.5 inches?

- A. 3.5 in.
  - B. 4.8 in.
  - C. 5.6 in.
  - D. 10.4 in.
3. Which is closest to the value of  $(3\sqrt{6})(5\sqrt{8}) + (6\sqrt{2})(2\sqrt{7})$  ?
- A. 92.1
  - B. 103.9
  - C. 148.8
  - D. 212.6