

The correct choice is answer c. There are two ways to find the answer. One way is to start with adding the odd number of 3 to the first term and then add the next consecutive odd number to the next term and so on.
The other way was to square each consecutive term and add 3. For example $1(1) + 3 = 4$; $2(2) + 3 = 7$; Therefore $7(7) + 3 = 52$; which was answer C.

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The correct choice is answer c. Half of Aubrey's allowance ($a/2$) is \$1.00 less than Molly's allowance. If Molly's allowance is reduced by \$1.00 ($m - \1.00), it will be equal to half of Aubrey's allowance. This equation is shown in answer C.

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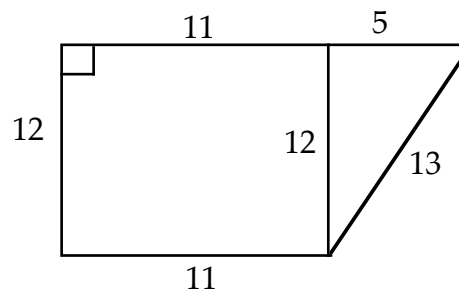
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The correct choice was answer b. The amount earned by selling adult tickets would be represented by multiplying the number of adult tickets sold (a) by \$5.00, and the amount earned from the student tickets would be represented by multiplying the number of student tickets sold (s) by \$4.00. The total amount earned would be $\$5.00(a) + \$4.00(s)$. To find the profit (P), you must subtract \$300.00 used to pay for the band. The resulting equation is $P = \$5.00(a) + \$4.00(s) - \$300.00$.

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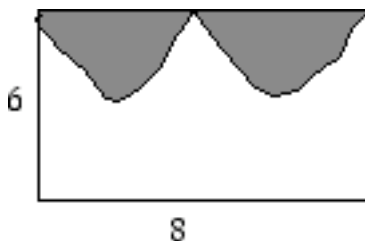
The correct answer is 162 square feet. By drawing in the altitude from the lower right corner a rectangle and a 5-12-13 right triangle are created. That leaves 22 ft from the perimeter to be used for the sides of the rectangle. Area of the rectangle equals 12×11 or 132 sq. ft. Triangle area equals $(1/2) \times 5 \times 12$ or 30 sq. ft.



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The shaded region of the rectangle represents approximately $1/8$ of the rectangle. Therefore, since the rectangle area is 8×6 or 48 sq. units, the shaded region should represent about $1/8$ of that area or 6 sq. units.



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The correct order is square, circle, triangle. By choosing an arbitrary side length such as 4 inches, the square area would be 4×4 or 16 sq. in. and the equilateral triangle area would be $(1/2) \times 4 \times 2\sqrt{3}$ or a little less than 7 sq. in. The circle radius would be 2 in. creating a circle area of $(2)^2$ or about 12.5 sq. in. Therefore, the square is the largest, then the circle, and finally the triangle.

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