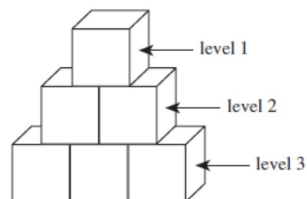
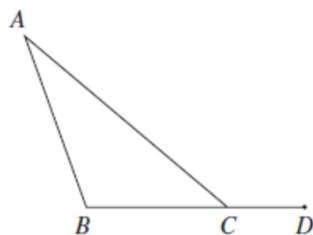


1. Carmen is playing with blocks. She arranges stacks of blocks so that each successive level of blocks has 1 fewer block than the level below it and the top level has 1 block. Such a stack with 3 levels is shown below. Carmen wants to make such a stack with 12 levels. How many blocks would she use to build this stack?



- A. 66
- B. 78
- C. 132
- D. 144
- E. 156

12. In the figure below, $\angle BAC$ measures 30° , $\angle ABC$ measures 110° , and points B , C , and D are collinear. What is the measure of $\angle ACD$?

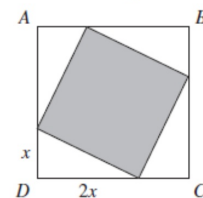


- F. 150°
- G. 140°
- H. 130°
- J. 120°
- K. 110°

6. In any parallelogram $ABCD$, it is always true that the measures of $\angle ABC$ and $\angle BCD$:

- F. add up to 180° .
- G. add up to 90° .
- H. are each greater than 90° .
- J. are each 90° .
- K. are each less than 90° .

33. In the figure below, $ABCD$ is a square. Points are chosen on each pair of adjacent sides of $ABCD$ to form 4 congruent right triangles, as shown below. Each of these has one leg that is twice as long as the other leg. What fraction of the area of square $ABCD$ is shaded?



- A. $\frac{1}{9}$
- B. $\frac{2}{9}$
- C. $\frac{4}{9}$
- D. $\frac{5}{9}$
- E. $\frac{8}{9}$