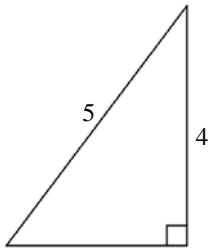
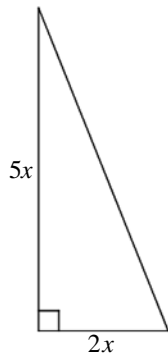


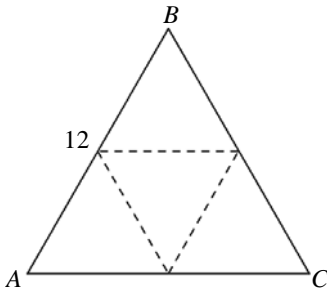
UB SAT 2009
 Homework #21
 Triangles
Due: Thurs, May 14



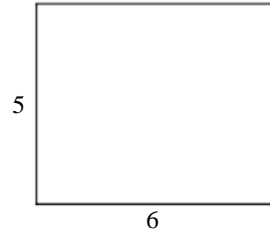
1. If the area of the triangle above is 6, what is its perimeter?
 (A) 8 (B) 11 (C) 12 (D) 15 (E) 16



2. If $x = 3$, what is the area of the triangle above?
 (A) 10
 (B) 12
 (C) 21
 (D) 30
 (E) 45

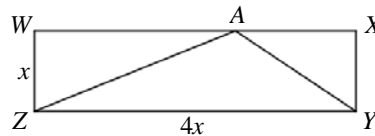


3. If equilateral triangle ABC is cut by three lines as shown to form four equilateral triangles of equal area, what is the length of a side of one of the smaller triangles?
 (A) 3 (B) 4 (C) 5 (D) 6 (E) 8



4. If the rectangle above is divided into 2 triangles, then the sum of the perimeters of both triangles is
 (A) equal to 30
 (B) less than 30
 (C) equal to 32
 (D) equal to 34
 (E) greater than 34

5. A movie theater is 3 blocks due north of a supermarket and a beauty parlor is 4 blocks due east of the movie theater. How many blocks long is the street that runs directly from the supermarket to the beauty parlor?
 (A) 2.5 (B) 3 (C) 4 (D) 5 (E) 7



6. What is the area of triangle YAZ?
 (A) $3x$
 (B) x^2
 (C) $5x$
 (D) $2x^2$
 (E) $4x^2$
7. If a triangle has vertices of $(-1, 5)$, $(-1, -3)$, and $(5, -3)$, then the perimeter of the triangle is
 (A) 8 (B) 10 (C) 15 (D) 24 (E) 30

