9 Estimate measurements and solve application problems involving length (including perimeter and circumference), area, and volume

1. Which of these units would be most appropriate to measure the height of a flagpole?

   A centimeters
   B decimeters
   C meters
   D kilometers

2. A shoebox measures 4 inches high, 6 inches long, and 12 inches wide. What is the volume of the shoebox?

   A 288 $in.^3$
   B 72 $in.^3$
   C 48 $in.^3$
   D 22 $in.^3$

3. A rectangular painting measures 2 feet long and 3 feet wide. What is the area of the painting in *square inches*?

   A 6 in^2
   B 72 in^2
   C 864 in^2
   D 10,368 in^2

4. What is the perimeter of the painting described in the previous problem expressed in *inches*?

   A 200 in.
   B 120 in.
   C 100 in.
   D 60 in.

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