Fixed Perimeter: Changing Area

1. Jackson is putting up a fence in his yard with a total perimeter of 750 feet. Which dimensions would give him the largest area?

a. 187.5 by 187.5 ft.
b. 187 by 188 ft.
c. 110 by 265 ft.
d. 200 by 175 ft.

2. What kind of rectangle creates the largest area?

a. a long and skinny rectangle
b. a short and fat rectangle
c. a square
d. a long and somewhat wide rectangle

3. Each of the following rectangles have perimeters of 1,000 feet. Which one of the dimensions will produce the largest area?

a. 501 ft. by 499 ft.
b. 557 ft. by 443 ft.
c. 602 ft. by 398 ft.
d. 459 ft. by 541 ft.