OPTIMIZING AREA, MINIMIZING PERIMETER PRACTICE

1. Determine the area of the circle with the following perimeters:

a) 65 m b) 72 miles

1. Determine the perimeter of the circle with the following areas:

a) 11 ft2 b) 100000 m2

1. For each perimeter, what are the dimensions of the rectangle with the maximum area? What is the area?

a) 489 cm b) 32 in

1. For each area, what are the dimensions of the rectangle with the minimum perimeter? What is the perimeter?
2. 97 ft2 b) 71 m2