

Read carefully and choose the correct responses.

1. A construction company is building a rectangular playground with a fixed perimeter of 180 meters.

What dimensions should they choose for the playground to maximize the area?

A) Length: 60 meters, Width: 60 meters

B) Length: 70 meters, Width: 20 meters

C) Length: 50 meters, Width: 40 meters

D) Length: 80 meters, Width: 10 meters

2. A farmer wants to enclose a rectangular field using 240 meters of fencing material. What dimensions should they choose for the field to maximize the area?

A) Length: 60 meters, Width: 60 meters

B) Length: 80 meters, Width: 40 meters

C) Length: 70 meters, Width: 50 meters

D) Length: 90 meters, Width: 30 meters

3. A gardener wants to create a rectangular garden using 100 feet of fencing material. What dimensions should they choose for the garden to maximize the area?

A) Length: 25 feet, Width: 25 feet

B) Length: 30 feet, Width: 20 feet

C) Length: 40 feet, Width: 10 feet

D) Length: 50 feet, Width: 5 feet