Name _____

ANSWERS

PERIMETER OF COMPOSITE SHAPES

Instructions: Calculate the perimeter of each compound shape described, considering all sides and curved sections. Choose and place an X on the correct answer from the three options provided.

Exercise 1

A rectangular playground measures 50 meters by 30 meters. Attached to one of the shorter sides is a semicircular track with a radius of 15 meters. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

X	175	185

Exercise 2

A square garden has a side length of 25 meters. A semicircular flower bed with a radius of 12.5 meters is added to one of the sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

137.25	X	130

Exercise 3

A triangular farm has sides measuring 40 meters, 50 meters, and 60 meters. A circular pond with a radius of 20 meters is added, cutting into one side of 60 meters. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

X	240	260

Exercise 4

A rectangular roof measures 12 meters by 8 meters. A quarter-circle skylight with a radius of 4 meters is cut into one of the shorter sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

43.28	42	X

Exercise 5

A hexagonal pavilion has six equal sides of 10 meters each. A semicircular platform with a radius of 5 meters is added to one of the sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

76.4	X	80

Exercise 6

A trapezoidal garden has a top base of 15 meters, a bottom base of 25 meters, and two equal sides of 12 meters. A semicircular pond with a radius of 7.5 meters is added to the longer base. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

X	100	92

How Did You Do? ☺ 😐 ☹