Name _____

NAME: _____

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 swimming pool measures 20 meters by 10 meters. A semicircular jacuzzi with a radius of 5 meters is attached to one of the shorter sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

74.7	70	75.5

Exercise 2

A square basketball court has a side length of 15 meters. A circular area with a radius of 7.5 meters is added to one of the sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

97.85	109.85	105

Exercise 3

A triangular plot of land has sides measuring 50 meters, 40 meters, and 60 meters. A semicircular driveway with a radius of 20 meters is attached along the longest side. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

186.8	192.6	186.4

Exercise 4

A rectangular warehouse measures 30 meters by 20 meters. A quarter-circle storage area with a radius of 10 meters is added to one of the longer sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

123.14	123.57	125

Exercise 5

A pentagonal garden has five equal sides of 8 meters each. A semicircular flower bed with a radius of 4 meters is attached to one of the sides. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

49.14	50.28	48.28

Exercise 6

A trapezoidal building has a top base of 12 meters, a bottom base of 20 meters, and two equal sides of 10 meters. A circular fountain with a radius of 6 meters is added at the center of the longer base. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

80.84	81.84	85

HOW DID YOU DO? ☺ 😐 ☹