

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 garden measures 12 meters by 8 meters, and a semicircular flowerbed with a radius of 4 meters is attached to one of the shorter sides of the rectangle. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

50.28

60.28

~~52.8~~

Exercise 2

A rectangular swimming pool measures 15 meters by 10 meters. A circular jacuzzi with a radius of 3 meters is attached to one of the shorter sides of the pool. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

69.42

~~71.2~~

75

Exercise 3

An L-shaped garden consists of two rectangular sections. The first rectangle measures 20 meters by 10 meters, and the second rectangle measures 15 meters by 8 meters, sharing one side. What is the perimeter of the garden?

88

~~92~~

92

Exercise 4

A house has a rectangular base measuring 25 meters by 18 meters. A triangular porch is attached to one of the longer sides of the rectangle, with a base of 12 meters and two equal sides of 10 meters each. What is the perimeter of the composite shape?

~~88~~

90

95

Exercise 5

A schoolyard has a square section measuring 15 meters on each side and a quarter-circle section with a radius of 5 meters attached to one corner of the square. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

56.57

62.85

~~63.5~~

Exercise 6

A rectangular garden measures 14 meters by 10 meters, and a semicircular pond with a radius of 7 meters is attached to one of the shorter sides of the rectangle. What is the perimeter of the composite shape? Use $\pi \approx 3.14$.

~~75.8~~

78

80.56

How Did You Do?

