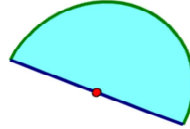


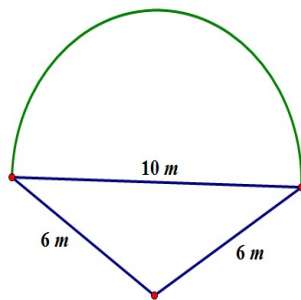
Circle Word Problems Worksheets

1. Ken's landscape gardening business makes odd-shaped lawns that include semicircles. Find the length of the edging material needed to border the two lawn designs. Use 3.14 for π .

a) The radius of this flowerbed is 2.5 m .



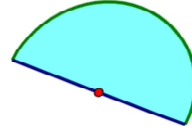
b) The diameter of the semicircular section is 10 m , and the lengths of the two sides are 6 m .



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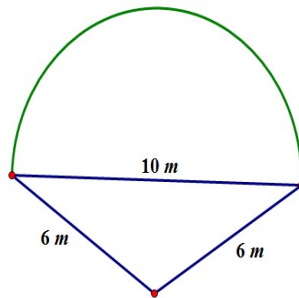


A semicircle has half of the circumference of a circle. The circumference of the semicircle is $C = \frac{1}{2}(\pi \cdot 2 \cdot 2.5 \text{ m})$ which is approximately 7.85 m.

The length of the edging material must include the circumference and the diameter; $7.85 \text{ m} + 5 \text{ m} = 12.85 \text{ m}$.

Ken needs 12.85 meters of edging to complete his design.

b) The diameter of the semicircular section is 10 m, and the lengths of the two sides are 6 m.



The circumference of the semicircular part has half of the circumference of a circle. The circumference of the semicircle is $C = \frac{1}{2}\pi \cdot 10 \text{ m}$, which is approximately 15.7 m. The length of the edging material must include the circumference of the semicircle and the perimeter of two sides of the triangle;

$15.7 \text{ m} + 6 \text{ m} + 6 \text{ m} = 27.7 \text{ m}$. Ken needs 27.7 meters of edging to complete his design.

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