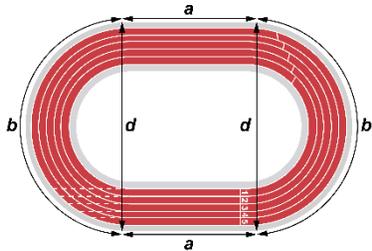


Lesson 6 Assessment

Solving Problems with 2-D Composite Shapes

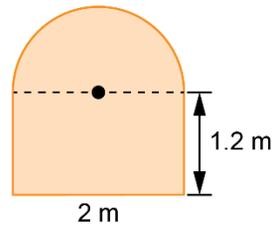
Solving Problems with 2-D Composite Shapes

Decomposes a composite shape into known shapes



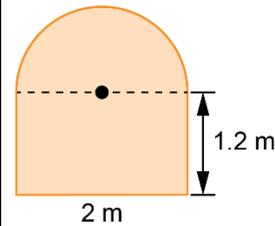
The track is made up of a rectangle and two half circles.

Applies decomposition to determine the perimeter of a composite shape



Perimeter of rectangle portion:
 $1.2\text{ m} + 2\text{ m} + 1.2\text{ m} = 4.4\text{ m}$
 Perimeter of half circle portion:
 $(\pi \times 2\text{ m}) \div 2 \approx 3.14\text{ m}$
 Perimeter of composite shape:
 $4.4\text{ m} + 3.14\text{ m} = 7.54\text{ m}$

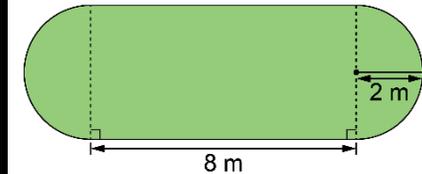
Applies decomposition to determine the area of a composite shape



Area of rectangle:
 $1.2\text{ m} \times 2\text{ m} = 2.4\text{ m}^2$
 Area of half circle:
 $(\pi \times 1\text{ m} \times 1\text{ m}) \div 2 \approx 1.57\text{ m}^2$
 Area of composite shape:
 $2.4\text{ m}^2 + 1.57\text{ m}^2 = 3.97\text{ m}^2$

Solves problems involving perimeter and area of composite shapes

Determine the perimeter and area of the garden.



Perimeter: circumference of circle + 2 sides of rectangle
 $= (2 \times \pi \times 2) + 2 \times 8$
 ≈ 28.56
 The perimeter is about 28.56 m.
 Area: circle + rectangle
 $= (\pi \times 2 \times 2) + 8 \times 4$
 ≈ 44.56
 The area is about 44.56 m².

Observations/Documentation