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| **Solving Problems with 2-D Composite Shapes** |
| Decomposes a composite shape into known shapesThe track is made up of a rectangle and two half circles. | Applies decomposition to determine the perimeter of a composite shapePerimeter of rectangle portion: 1.2 m + 2 m + 1.2 m = 4.4 mPerimeter of half circle portion: (π × 2 m) ÷ 2 ≈ 3.14 mPerimeter of composite shape: 4.4 m + 3.14 m = 7.54 m | Applies decomposition to determine the area of a composite shapeArea of rectangle: 1.2 m × 2 m = 2.4 m2Area of half circle: (π × 1 m × 1 m) ÷ 2 ≈ 1.57 m2Area of composite shape: 2.4 m2 + 1.57 m2 = 3.97 m2 | Solves problems involving perimeter and area of composite shapesDetermine the perimeter and area of the garden.Perimeter: circumference of circle + 2 sides of rectangle= (2 × π × 2) + 2 × 8≈ 28.56The perimeter is about 28.56 m.Area: circle + rectangle= (π × 2 × 2) + 8 × 4 ≈ 44.56 The area is about 44.56 m2. |
| **Observations/Documentation** |
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