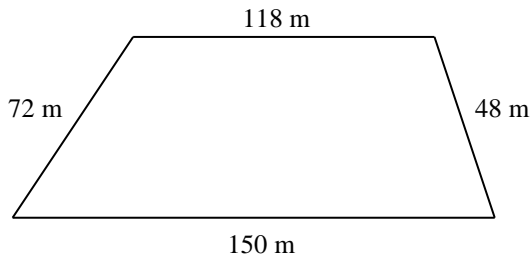# Measurement Problem with Algebra

1. The circumference of a circle is **106.76 cm²**. Determine the radius of the circle.

2. A rectangular prism has a length of **82 mm**, a height of **147 mm**, and a volume of **277242 mm³**. Determine the width of the rectangular prism.

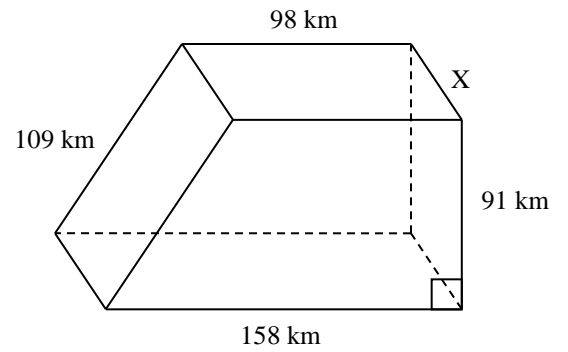3. The area of the following trapezoid is **5226 m²**. Determine the height of the trapezoid.

4. A square based pyramid has a height of **25 cm** and a volume of **6075 cm³**. Determine the length of the base of the pyramid.

5. The surface area of a sphere is **113.04 dm²**. Determine the volume of the sphere.

6. The perimeter of the following shape is **66.85 mm**. Determine the length of the missing sides.

12 mm

7. The surface area of the following shape is **47920 km²**. Determine the missing value of X.

98 km

X

109 km

91 km

158 km