Geometric Formulas Worksheet Answer Key

You've Fallen Right into Our Trapezoid

1. Find the volume of a cube with a radius of 4 cm.

   $\frac{4}{3}\pi(4)^3 = 267.9$ cm^3

2. Find the circumference of a circle with a diameter of 3 cm.

   $\pi(3) = 9.42$ cm

3. Find the area of a circle with a radius of 8 in.

   $\pi(8)^2 = 201.06$ in^2

4. Find the area of a trapezoid with bases of 8 ft and 10 ft and a height of 4 ft.

   $\frac{1}{2}(8 + 10)(4) = 36$ ft^2

5. Find the area of a rectangle with a length of 15 m and a width of 12 m.

   $15 \times 12 = 150$ m^2

6. Find the area of a triangle with a height of 30 ft and a base of 25 ft.

   $\frac{1}{2}(30)(25) = 325$ ft^2

7. Find the surface area of a cube with a length of 20 mm.

   $6(20)^2 = 2400$ mm^2

8. Find the volume of a rectangular prism with a length of 4cm, a width of 12 cm, and a height of 5 cm.

   $4 \times 12 \times 5 = 240$ cm^3

9. Find the area of a square with a perimeter of 20 cm.

   Length $= \frac{20}{4} = 5$ cm, area $= 25$ cm^2

10. Find the diameter of a circle with an area of 36π cm^2.

    $36\pi = \pi(\text{radius})^2$, diameter $= 12$ cm