Area & Perimeter

Measure of the total side length

Perimeter: $9cm + 12cm + 15cm = \boxed{36cm}$
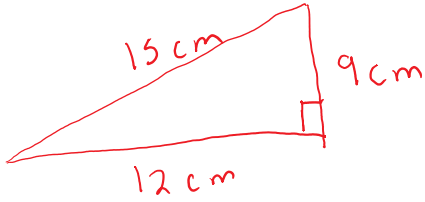
Area: $A_\triangle = \dfrac{bh}{2} = \dfrac{12cm \times 9cm}{2}$

$= 54 \, cm^2$

space inside the 2D shape
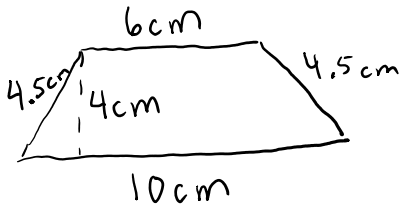
Perimeter: $6cm + 4.5cm + 4.5cm + 10cm$
$= 25 cm$

Area: $A_\square = \frac{1}{2}(a+b)h$

$= \frac{1}{2}(6cm + 10cm)\, 4cm$

$= \frac{1}{2}(16cm)\, 4cm$

$= \boxed{32 \, cm^2}$

Ex
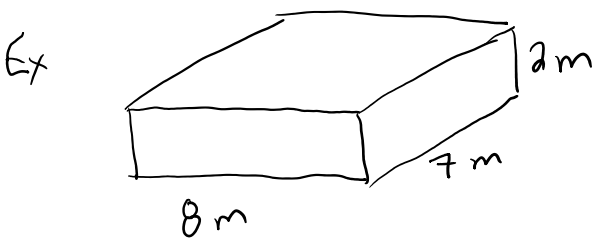
Surface Area:
$2 \times [(2m \times 7m) + (2m \times 8m) + (7m \times 8m)]$
$= 2(14m^2 + 16m^2 + 56m^2) = 2(86m^2)$
$= 172 \, m^2$

Volume: lwh

$= 7m \times 8m \times 2m$

$= \boxed{112 \, m3}$

Ex
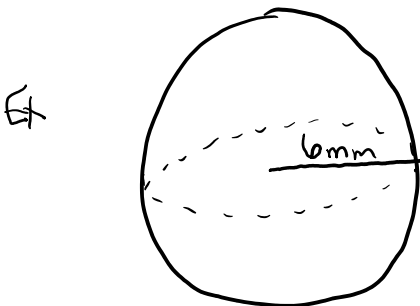
Surface Area: $SA = 4\pi r^2$

$= 4\pi (6mm)^2$

$= 4 \cdot \pi \cdot 36 mm^2 = \boxed{452.4 \, mm^2}$

Volume: $\frac{4}{3}\pi r^3$

Volume: $\frac{1}{3}\pi\ldots$

$= \frac{4}{3}\pi \cdot (6mm)^3$

$= \frac{4}{3} \cdot \pi \cdot 216 mm^3$

$= \boxed{904.8 mm^3}$

Ex

7 Km
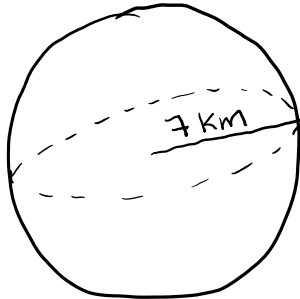
$SA = 4\pi r^2 = 4 \cdot \pi \cdot 7 Km^2$

$= 4 \cdot \pi \cdot 49 Km^2 = 615.8 Km^2$

$V = \frac{4}{3}\pi r^3 = \frac{4}{3} \cdot \pi \cdot (7 Km)^3$

$= \frac{4}{3}\pi \cdot 343 Km^3$

$= \boxed{1436.8 Km^3}$