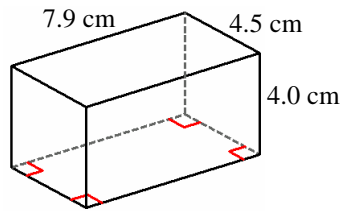


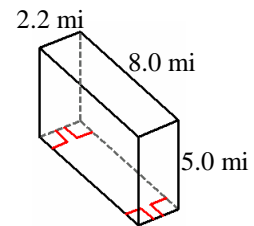
Volume and Surface Area of Rectangular Prisms

Instructions: Find the volume and surface area for each rectangular prism.

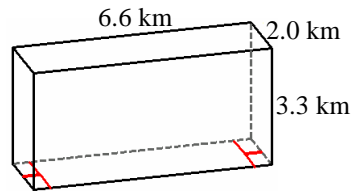
1)



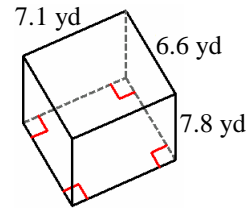
2)



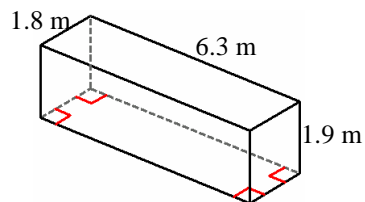
3)



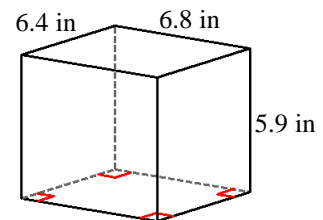
4)



5)



6)

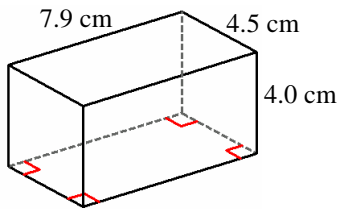


Volume and Surface Area of Rectangular Prisms Answer

Instructions: Find the volume and surface area for each rectangular prism.

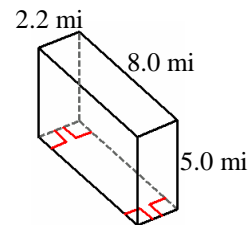
Formula: Volume (V) = lwh , Surface Area (A) = $2(lw+wh+lh)$

1)



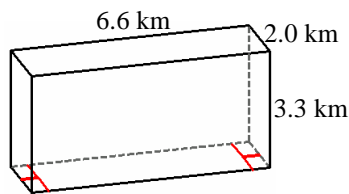
$$V = 7.9 \times 4.5 \times 4.0 = 142.2 \text{ cm}^3$$
$$A = 2 \times ((7.9 \times 4.5) + (4.5 \times 4.0) + (7.9 \times 4.0)) = 170.3 \text{ cm}^2$$

2)



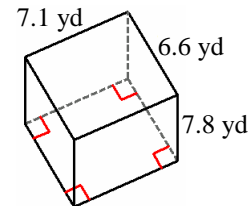
$$V = 8.0 \times 2.2 \times 5.0 = 88.0 \text{ mi}^3$$
$$A = 2 \times ((8.0 \times 2.2) + (2.2 \times 5.0) + (8.0 \times 5.0)) = 137.2 \text{ mi}^2$$

3)



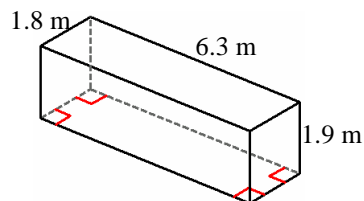
$$V = 6.6 \times 2.0 \times 3.3 = 43.6 \text{ km}^3$$
$$A = 2 \times ((6.6 \times 2.0) + (2.0 \times 3.3) + (6.6 \times 3.3)) = 83.2 \text{ km}^2$$

4)



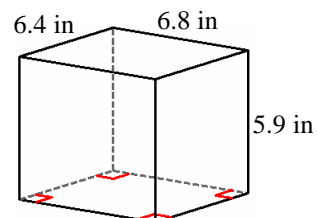
$$V = 7.1 \times 6.6 \times 7.8 = 365.5 \text{ yd}^3$$
$$A = 2 \times ((7.1 \times 6.6) + (6.6 \times 7.8) + (7.1 \times 7.8)) = 307.4 \text{ yd}^2$$

5)



$$V = 6.3 \times 1.8 \times 1.9 = 21.5 \text{ m}^3$$
$$A = 2 \times ((6.3 \times 1.8) + (1.8 \times 1.9) + (6.3 \times 1.9)) = 53.5 \text{ m}^2$$

6)



$$V = 6.8 \times 6.4 \times 5.9 = 216.6 \text{ in}^3$$
$$A = 2 \times ((6.8 \times 6.4) + (6.4 \times 5.9) + (6.8 \times 5.9)) = 217.4 \text{ in}^2$$