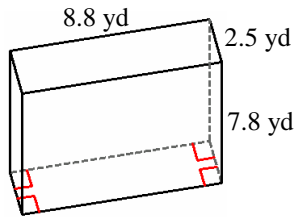


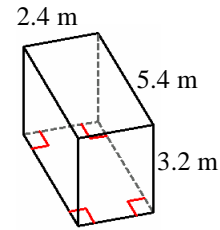
Volume and Surface Area of Rectangular Prisms (J)

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

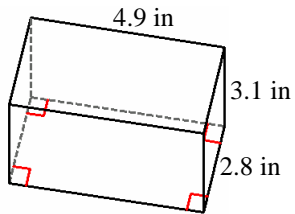
1)



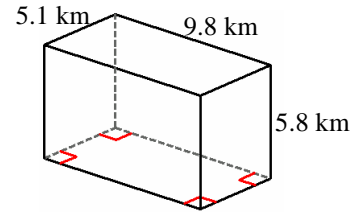
2)



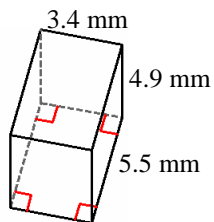
3)



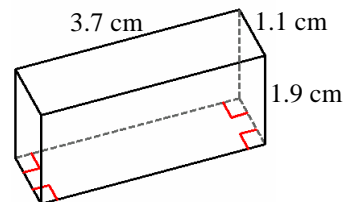
4)



5)



6)

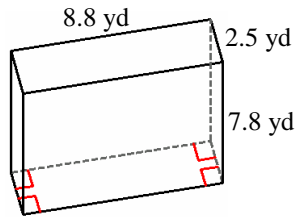


Volume and Surface Area of Rectangular Prisms Answer (J)

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

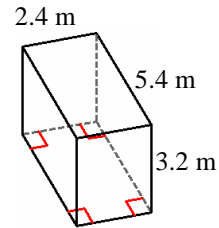
Formula: Volume (V) = lwh , Surface Area (A) = $2(lw+wh+lh)$

1)



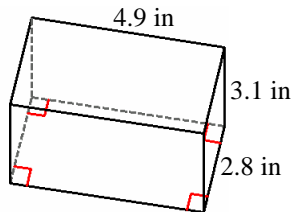
$$V = 8.8 \times 2.5 \times 7.8 = 171.6 \text{ yd}^3$$
$$A = 2 \times ((8.8 \times 2.5) + (2.5 \times 7.8) + (8.8 \times 7.8)) = 220.3 \text{ yd}^2$$

2)



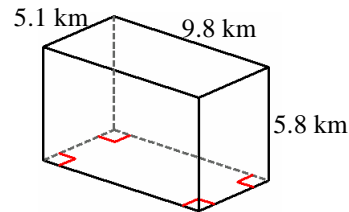
$$V = 5.4 \times 2.4 \times 3.2 = 41.5 \text{ m}^3$$
$$A = 2 \times ((5.4 \times 2.4) + (2.4 \times 3.2) + (5.4 \times 3.2)) = 75.8 \text{ m}^2$$

3)



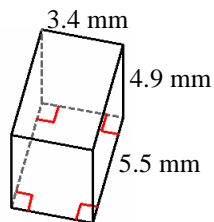
$$V = 4.9 \times 2.8 \times 3.1 = 42.5 \text{ in}^3$$
$$A = 2 \times ((4.9 \times 2.8) + (2.8 \times 3.1) + (4.9 \times 3.1)) = 75.2 \text{ in}^2$$

4)



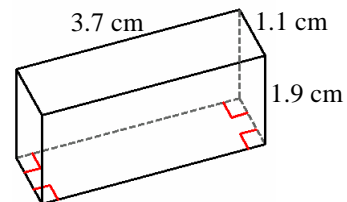
$$V = 9.8 \times 5.1 \times 5.8 = 289.9 \text{ km}^3$$
$$A = 2 \times ((9.8 \times 5.1) + (5.1 \times 5.8) + (9.8 \times 5.8)) = 272.8 \text{ km}^2$$

5)



$$V = 5.5 \times 3.4 \times 4.9 = 91.6 \text{ mm}^3$$
$$A = 2 \times ((5.5 \times 3.4) + (3.4 \times 4.9) + (5.5 \times 4.9)) = 124.6 \text{ mm}^2$$

6)



$$V = 3.7 \times 1.1 \times 1.9 = 7.7 \text{ cm}^3$$
$$A = 2 \times ((3.7 \times 1.1) + (1.1 \times 1.9) + (3.7 \times 1.9)) = 26.4 \text{ cm}^2$$