

# Build Tasks - Answers



**1. Cuboid  $12 \times 8 \times 5$  cm**

$$SA = 2(96 + 60 + 40) = 392 \text{ cm}^2$$

**2. Box  $1.2 \times 0.7 \times 0.5$  m**

$$SA = 2(0.84 + 0.6 + 0.35) = 3.58 \text{ m}^2$$

**3. Cube SA = 384**

$$6s^2 = 384 \rightarrow s^2 = 64 \rightarrow s = 8 \text{ cm}$$

**4. Cuboid  $15 \times 9 \times 4$  cm**

$$SA = 2(135 + 60 + 36) = 462 \text{ cm}^2$$

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**7. Cylinder  $r=3$ ,  $h=10$**   
 $2\pi(3)(10)+2\pi(9) \approx 244.92 \text{ cm}^2$

**8. Cylinder  $d=8$ ,  $h=12$**   
 $r=4: 2\pi(4)(12)+2\pi(16) \approx 401.92 \text{ m}^2$

**9. Cylinder  $SA=471$ ,  $r=5$**   
 $31.4h+157=471 \rightarrow h=10 \text{ cm}$

**10. Pencil  $20 \times 12 \times 8 \text{ mm}$**   
 $SA = 2(240+160+96) = 992 \text{ mm}^2$

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**13. Cube 2.5 cm**

$$SA = 6(6.25) = 37.5 \text{ cm}^2$$

**14. Paint can label**

$$\pi dh \approx 3.14 \times 10 \times 14 = 439.6 \text{ cm}^2$$

**15. Cylinder  $r=6$ ,  $h=15$**

$$SA \approx 565.2 + 226.08 = 791.28 \text{ cm}^2$$

**16. Room  $6 \times 4.5 \times 2.8$**

$$85.8 - 8 = 77.8 \text{ m}^2$$