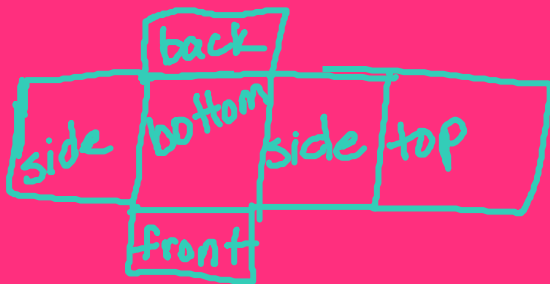
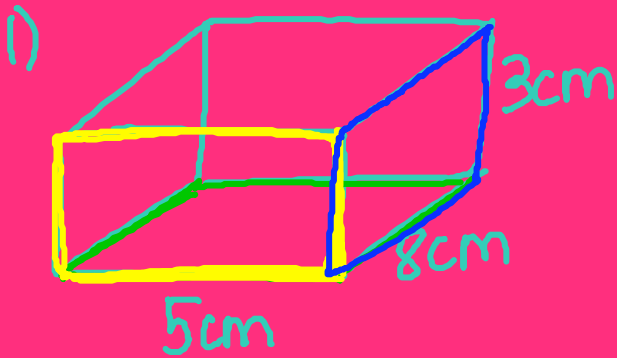


Surface Area of rectangular prisms

Surface Area - total area of all faces and curved sides of solids

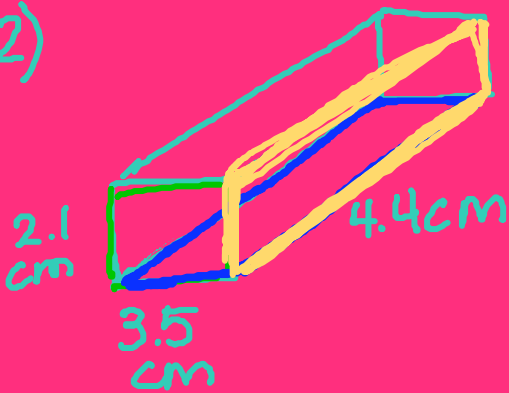


* opposite sides are congruent \rightarrow areas will be same



Top / Bottom	Front / Back	Sides
$A = lw$ $A = 5(8)$ $A = 40$ $\frac{\times 2}{80 \text{ cm}^2} +$	$A = lw$ $A = 5(3)$ $A = 15$ $\frac{\times 2}{30 \text{ cm}^2} +$	$A = lw$ $A = 8(3)$ $A = 24$ $\frac{\times 2}{48 \text{ cm}^2} =$
$\boxed{SA = 158 \text{ cm}^2}$		

2)



F/B

T/Bottom

Sides

$$A = lw$$

$$A = 3.5(2.1)$$

$$A = 7.35$$

$$\times 2$$

$$14.7 \text{ cm}^2$$

$$A = lw$$

$$A = 3.5(4.4)$$

$$A = 15.4$$

$$\times 2$$

$$30.8 \text{ cm}^2$$

$$A = lw$$

$$A = 4.4(2.1)$$

$$A = 9.24$$

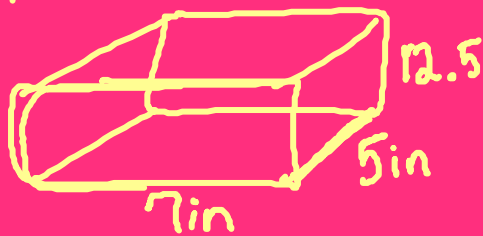
$$\times 2$$

$$18.48 \text{ cm}^2$$

$$14.7 \text{ cm}^2 + 30.8 \text{ cm}^2 + 18.48 \text{ cm}^2 = \text{SA} = \boxed{63.98 \text{ cm}^2}$$

3) $l = 7 \text{ in}$
 $w = 5 \text{ in}$
 $h = 12\frac{1}{2} \text{ in}$

* Draw & label picture



Top/B	Front/Back	Sides
$A = lw$	$A = lw$	$A = lw$
$A = 7(5)$	$A = 7(12.5)$	$A = 5(12.5)$
$A = 35$	$A = 87.5$	$A = 62.5$
$\frac{\times 2}{70 \text{ in}^2}$	$\frac{\times 2}{175 \text{ in}^2}$	$\frac{\times 2}{125 \text{ in}^2}$
$SA = 370 \text{ in}^2$		