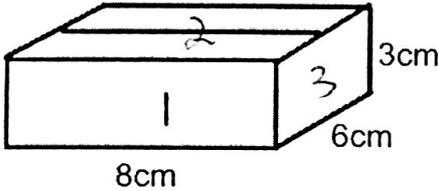
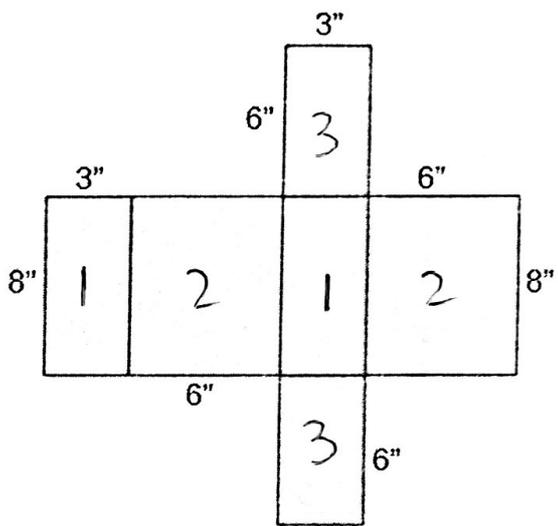
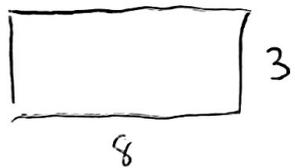
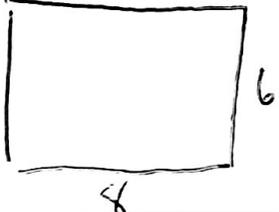
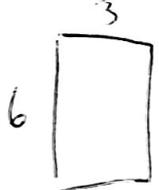


Surface Area of Prisms Warmup | MFM2P

1) Find the amount of cardboard needed for this box.

Method 1: Use a net and a table

<p>Shape:</p> 	<p>Net:</p> 	
Basic Shape #1	Basic Shape #2	Basic Shape #3
		
Area = $8 \times 3 = 24 \text{ cm}^2$	Area = $8 \times 6 = 48 \text{ cm}^2$	Area = $6 \times 3 = 18 \text{ cm}^2$
Total Area (2 of each rectangle) = $24 + 24 + 48 + 48 + 18 + 18 = 180 \text{ cm}^2$		

Method 2: Use the formula $SA = 2(l \times w + l \times h + w \times h)$

$$\begin{aligned}
 &= 2(8 \times 6 + 8 \times 3 + 6 \times 3) \\
 &= 2(48 + 24 + 18) \\
 &= 2(90) \\
 &= 180 \text{ cm}^2
 \end{aligned}$$

