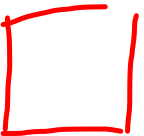
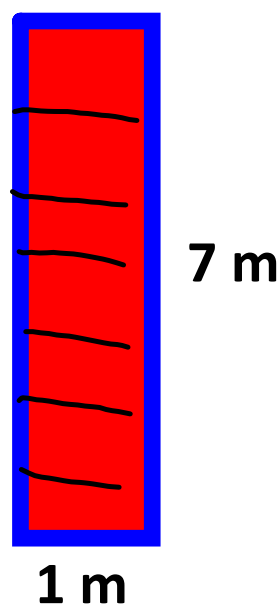
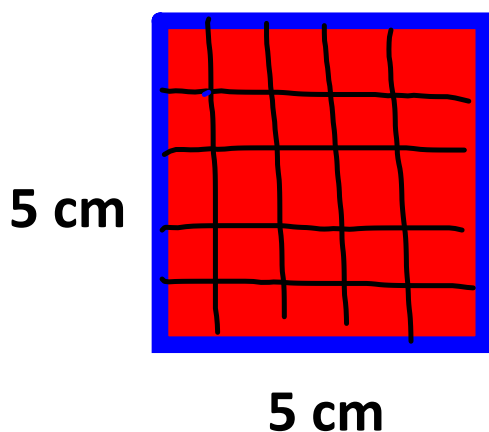


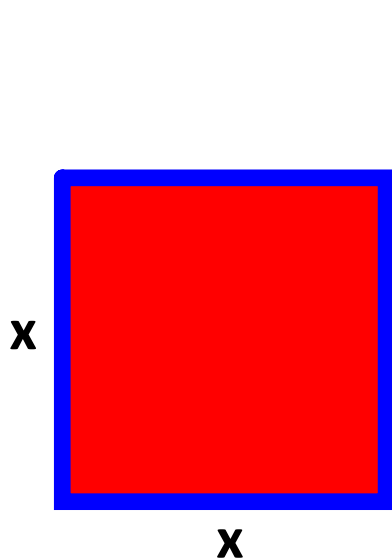
**WARM UP PROBLEM (whiteboards)**

1. Find the area of each of the following shapes.  
Show your work.  $5\text{ cm} \times 5\text{ cm} = 25\text{ cm}^2$
2. Which colour represents the area of each shape? 
3. Find the perimeter of each shape.  $20\text{ cm}$
4. Which colour represents the perimeter?

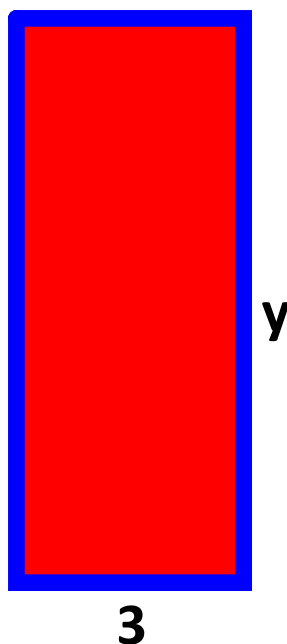


**PROBLEM #2 (whiteboards)**

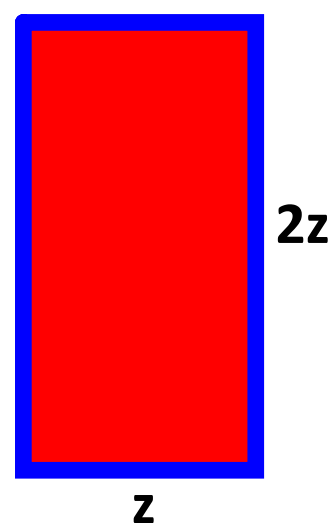
Write an expression for the **perimeter** of each shape.



$$\begin{aligned}
 P &= x + x + x + x \\
 &= x \text{ times } 4 \\
 &= x4 \\
 &= 4x
 \end{aligned}$$



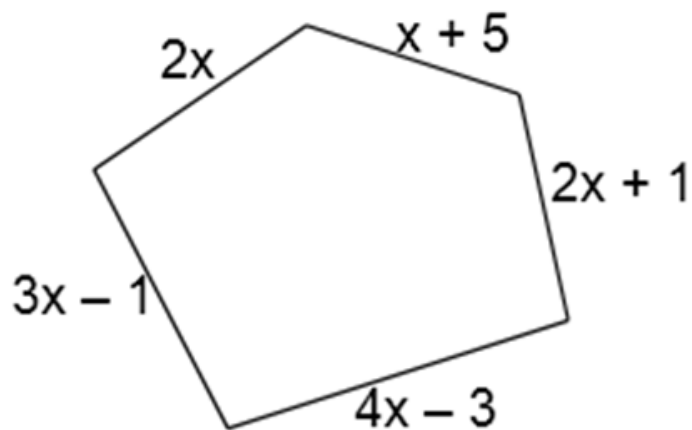
$$\begin{aligned}
 P &= y + y + 3 + 3 \\
 &= 2y + 6
 \end{aligned}$$



$$\begin{aligned}
 P &= 2z + 2z \\
 &\quad + z + z \\
 &= 4z + 2z \\
 &= 6z \\
 \hline
 P &= (2 \times 2z) \\
 &\quad + (2 \times z) \\
 &= 4z + 2z \\
 &= 6z
 \end{aligned}$$

**PROBLEM #4 (whiteboards)**

Write an expression for the **perimeter** of this shape.



**PROBLEM #5 (whiteboards)**

What would the **perimeter** of this shape be if:

a)  $x = 2$

b)  $x = 10$

