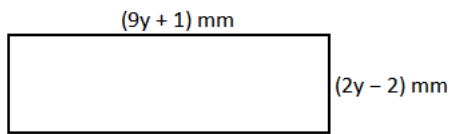


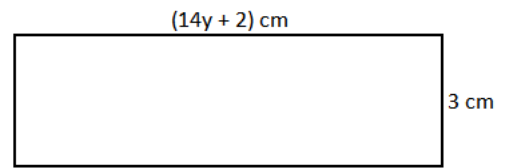
Give a fully simplified expression for the perimeter of each shape:

SET A

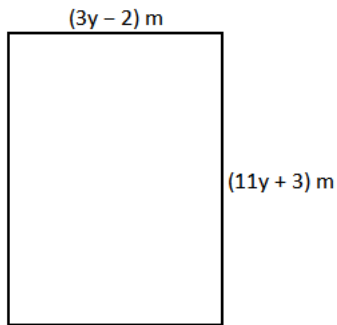
[1]



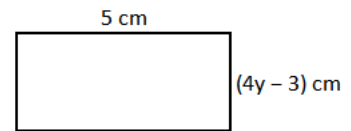
[3]



[2]

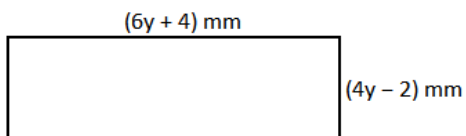


[4]

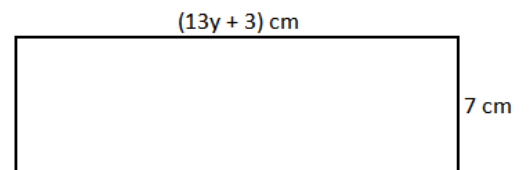


SET B

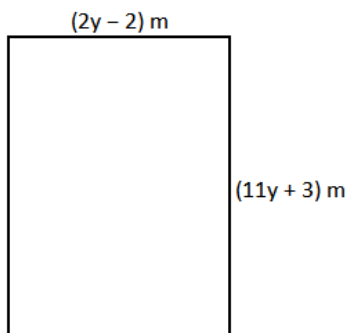
[1]



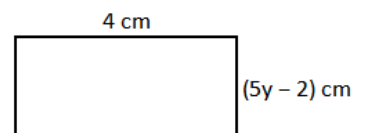
[3]



[2]

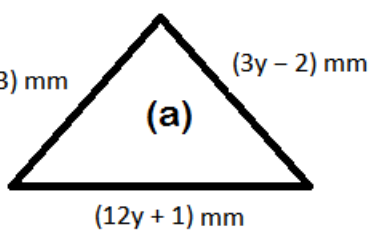


[4]

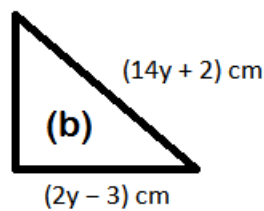


SET C

$(4y - 3) \text{ mm}$



$(2y - 3) \text{ cm}$



ANSWERS. Give a fully simplified expression for the perimeter of each shape:

SET A

[1]

$$\begin{array}{l}
 (9y + 1) \text{ mm} \\
 2(9y + 1) + 2(2y - 2) \\
 = 18y + 2 + 4y - 4 \\
 = \boxed{22y - 2 \text{ mm}} \\
 (2y - 2) \text{ mm}
 \end{array}$$

[3]

$$\begin{array}{l}
 (14y + 2) \text{ cm} \\
 2(14y + 2) + 2(3) \\
 = 28y + 4 + 6 \\
 = \boxed{28y + 10 \text{ cm}} \\
 3 \text{ cm}
 \end{array}$$

[2]

$$\begin{array}{l}
 (3y - 2) \text{ m} \\
 2(3y - 2) + 2(11y + 3) \\
 = 6y - 4 + 22y + 6 \\
 = \boxed{28y + 2 \text{ m}} \\
 (11y + 3) \text{ m}
 \end{array}$$

[4]

$$\begin{array}{l}
 5 \text{ cm} \\
 2(5) + 2(4y - 3) \\
 = 10 + 8y - 6 \\
 = \boxed{8y + 4 \text{ cm}} \\
 (4y - 3) \text{ cm}
 \end{array}$$

SET B

[1]

$$\begin{array}{l}
 (6y + 4) \text{ mm} \\
 2(6y + 4) + 2(4y - 2) \\
 = 12y + 8 + 8y - 4 \\
 = \boxed{20y + 4 \text{ mm}} \\
 (4y - 2) \text{ mm}
 \end{array}$$

[3]

$$\begin{array}{l}
 (13y + 3) \text{ cm} \\
 2(13y + 3) + 2(7) \\
 = 26y + 6 + 14 \\
 = \boxed{26y + 20 \text{ cm}} \\
 7 \text{ cm}
 \end{array}$$

[2]

$$\begin{array}{l}
 (2y - 2) \text{ m} \\
 2(2y - 2) + 2(11y + 3) \\
 = 4y - 4 + 22y + 6 \\
 = \boxed{26y + 2 \text{ m}} \\
 (11y + 3) \text{ m}
 \end{array}$$

[4]

$$\begin{array}{l}
 4 \text{ cm} \\
 2(4) + 2(5y - 2) \\
 = 8 + 10y - 4 \\
 = \boxed{10y + 4 \text{ cm}} \\
 (5y - 2) \text{ cm}
 \end{array}$$

SET C

$$\begin{array}{l}
 (4y - 3) \text{ mm} \\
 (3y - 2) \text{ mm} \\
 (a) \\
 (12y + 1) \text{ mm} \\
 (4y - 3) + (12y + 1) + (3y - 2) \\
 = \boxed{19y - 4 \text{ mm}}
 \end{array}$$

$$\begin{array}{l}
 (2y - 3) \text{ cm} \\
 (14y + 2) \text{ cm} \\
 (b) \\
 (2y - 3) \text{ cm} \\
 (2y - 3) + (2y - 3) + (14y + 2) \\
 = \boxed{18y - 4 \text{ cm}}
 \end{array}$$