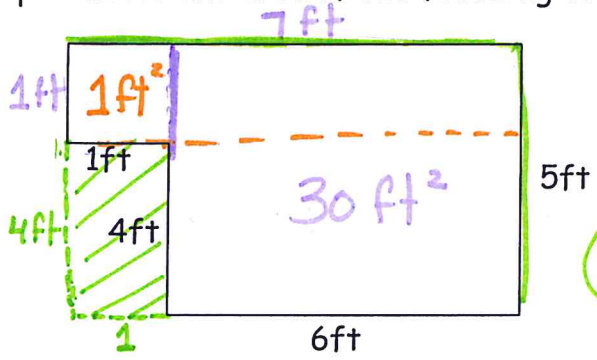
Area and Perimeter of complex Figures Notes Name:_____

Find perimeter and area of the following composite shapes.

1.



$P = 6 + 5 + 7 + 1 + 1 + 4$

$P = 24$ ft

① $A_1 = 30$ ft²

$A_2 = 1$ ft²

$A = 30 + 1$

$A = 31$ ft²

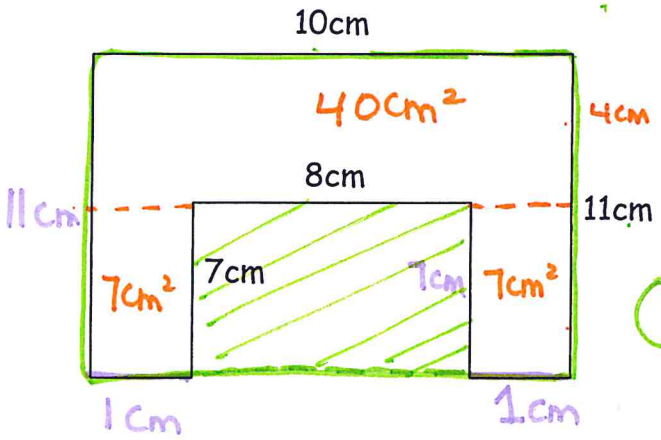
② $A_1 = 7 \times 5 = 35$ ft²

$A_2 = 4$ ft²

$A_1 - A_2 = 35 - 4$

$A = 31$ ft²

2.



$P = 10 + 8 + 11 + 11 + 7 + 7 + 1 + 1$

$P = 56$ cm

① $A_1 = 40$cm² $A_2 = 7$cm² $A_3 = 7$cm²

$A = 40 + 7 + 7 = 54$cm²

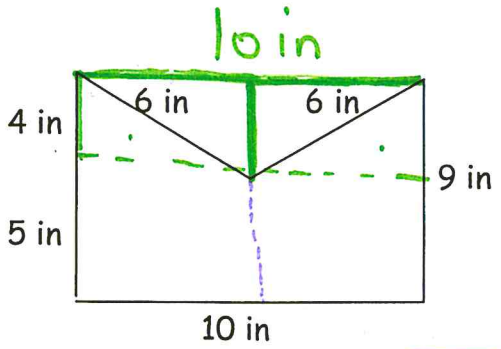
② $A_1 = 110$ cm²

$A_2 = 56$ cm²

$A_1 - A_2 = 110 - 56$

$A = 54$ cm²

3.



$A_1 = 9 \times 10$

$A_1 = 90\ in^2$

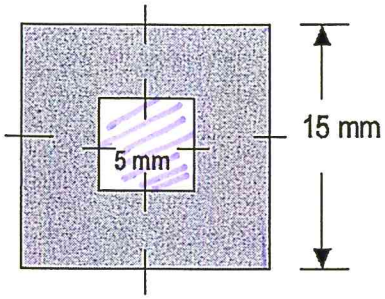
$A_2 = \frac{1}{2} b \cdot h = \frac{1}{2} 10 \cdot 4$

$= 20\ in^2$

$A_1 - A_2 = 70\ in^2$

$P = 10 + 9 + 9 + 6 + 6 = 40\ in = P$

4.

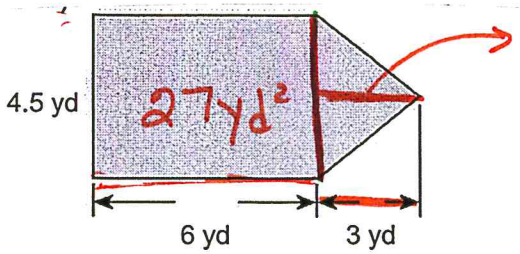


$A_1 = 15 \times 15 = 225\ mm^2$

$A_2 = 5 \times 5 = 25\ mm^2$

$A = A_1 - A_2 = 200\ mm^2$

5



$A_2 = \frac{1}{2} b \cdot h$

$= \frac{1}{2}(4.5)(3\ yd)$

$A_2 = 6.75\ yd^2$

$A_1 + A_2 = 27 + 6.75$

$A = 33.75\ yd^2$