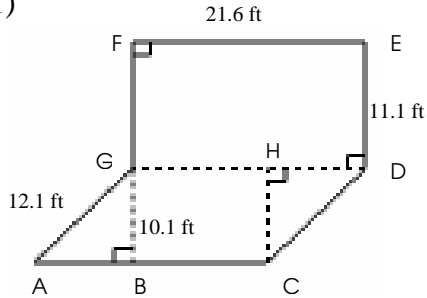


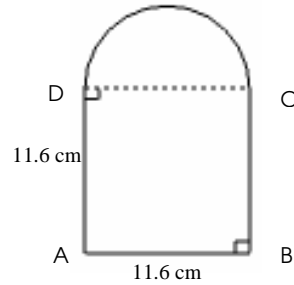
## Area and Perimeter of Compound Shapes (B)

Instructions: Find the area and perimeter of each compound shape.

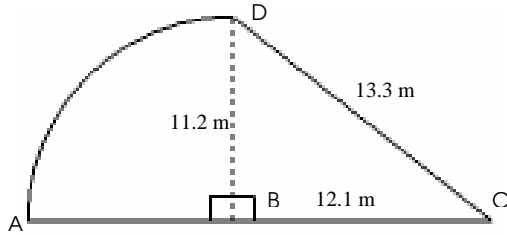
1)



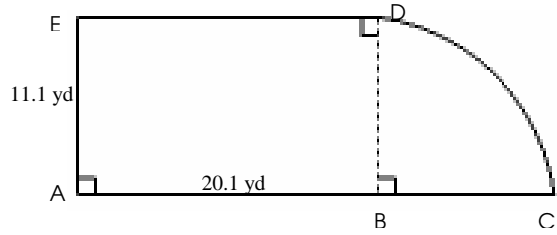
2)



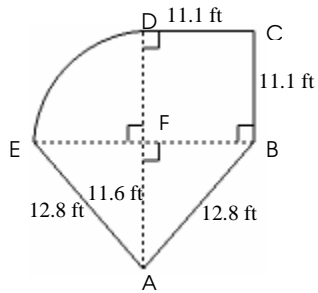
3)



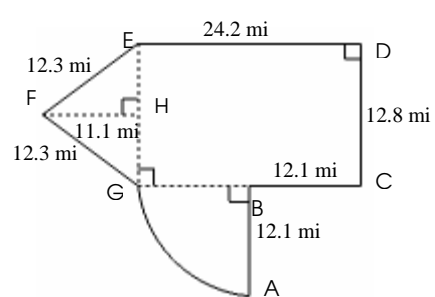
4)



5)

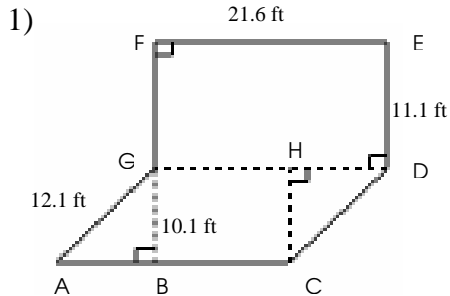


6)



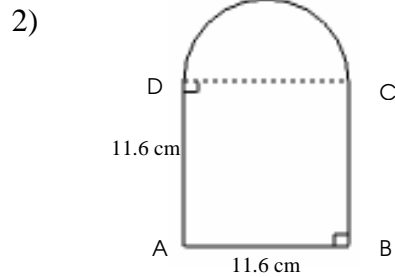
## Area and Perimeter of Compound Shapes Answer (B)

Instructions: Find the area and perimeter of each compound shape.



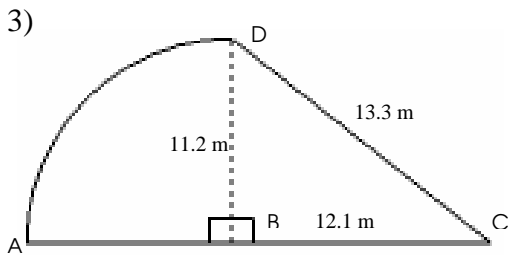
Area = Area of ACDG + Area of DEFG  
 =  $(AC \times BG) + (DE \times EF)$   
 =  $(21.6 \times 10.1) + (11.1 \times 21.6)$   
 =  $457.9 \text{ ft}^2$

Perimeter =  $(2 \times AC) + (2 \times CD) + (2 \times DE)$   
 =  $(2 \times 21.6) + (2 \times 12.1) + (2 \times 11.1)$   
 =  $89.6 \text{ ft}$



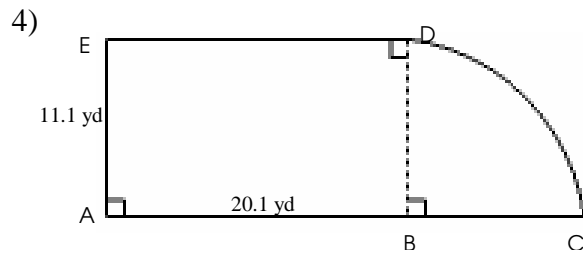
Area = Area of ABCD + Area of Part Circle CD  
 =  $(AD \times AB) + 0.5 \Pi (0.5 CD)^2$   
 =  $(11.6 \times 9.1) + 0.5 \times 3.14 (0.5 \times 9.1)^2$   
 =  $138.1 \text{ cm}^2$

Perimeter =  $AB + (2 \times AD) + \text{Arc CD}$   
 =  $9.1 + (2 \times 11.6) + 0.5 \times 3.14 \times 9.1$   
 =  $46.6 \text{ cm}$



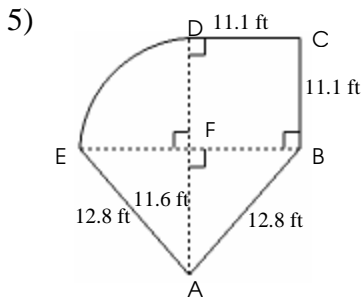
Area = Area of BCD + Area of Part Circle ABD  
 =  $(0.5 \times BC \times BD) + 0.25 \Pi (BC)^2$   
 =  $(0.5 \times 12.1 \times 11.2) + 0.25 \times 3.14 (11.2)^2$   
 =  $166.2 \text{ m}^2$

Perimeter = Arc AD + BC + CD  
 =  $0.25 \times 3.14 \times 2 \times 10.1 + 12.1 + 11.2$   
 =  $43.0 \text{ m}$



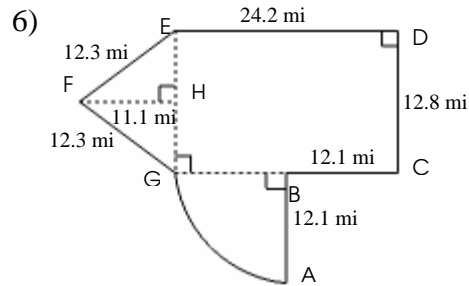
Area = Area of ABDE + Area of Part Circle BCD  
 =  $(AB \times AE) + 0.25 \Pi (BD)^2$   
 =  $(20.1 \times 11.1) + 0.25 \Pi (11.1)^2$   
 =  $319.8 \text{ yd}^2$

Perimeter =  $(2 \times AB) + \text{Arc DC} + EA$   
 =  $(2 \times 20.1) + 0.25 \times 3.14 \times 2 \times 11.1 + 11.1$   
 =  $68.7 \text{ yd}$



Area = Area of ABE + Area of BCDF + Area of Part Circle DEF  
 =  $(0.5 \times AF \times (2 \times BF)) + (DC)^2 + 0.25 \Pi (FD)^2$   
 =  $(0.5 \times 11.6 \times (2 \times 11.1)) + (11.1)^2 + 0.25 \Pi (11.1)^2$   
 =  $348.7 \text{ ft}^2$

Perimeter =  $(2 \times AB) + \text{Arc DE} + (2 \times CD)$   
 =  $(2 \times 12.8) + 0.25 \times 3.14 \times 2 \times 10.1 + (2 \times 11.1)$   
 =  $65.2 \text{ ft}$



Area = Area of EFG + Area of CDEG + Area of Part Circle ABG  
 =  $(0.5 \times EG \times FH) + (CD \times DE) + 0.25 \Pi (BA)^2$   
 =  $(0.5 \times 12.8 \times 11.1) + (12.8 \times 24.2) + 0.25 \Pi (12.1)^2$   
 =  $495.7 \text{ mi}^2$

Perimeter =  $AB + BC + CD + ED + \text{Arc AG} + (2 \times EF)$   
 =  $12.1 + 12.1 + 12.8 + 24.2 + 0.25 \times 3.14 \times 2 \times 12.1 + (2 \times 12.3)$   
 =  $104.8 \text{ mi}$