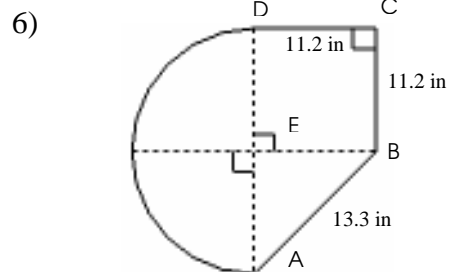
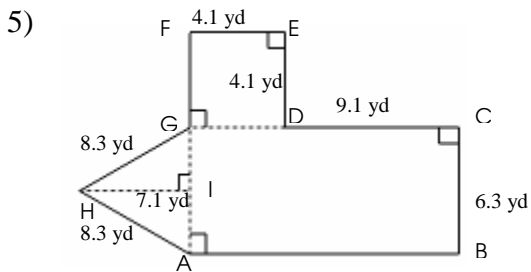
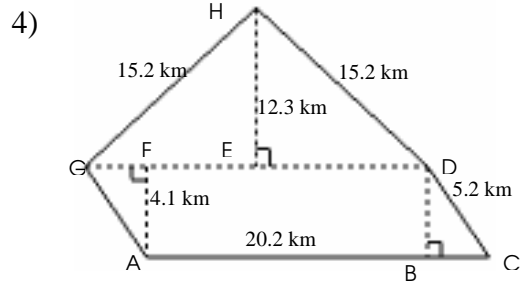
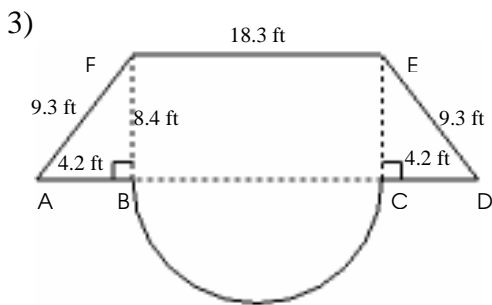
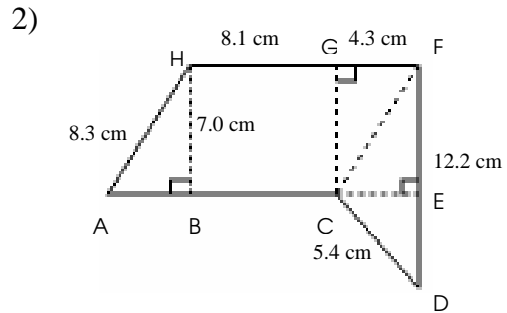
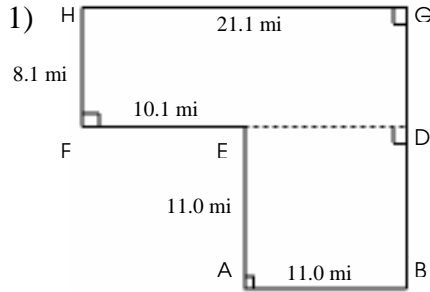


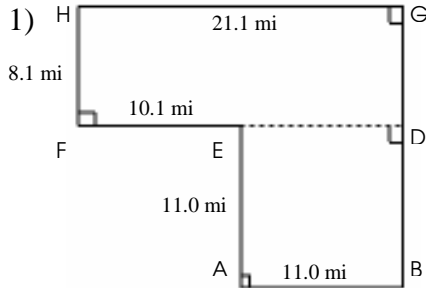
## Area and Perimeter of Compound Shapes (C)

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



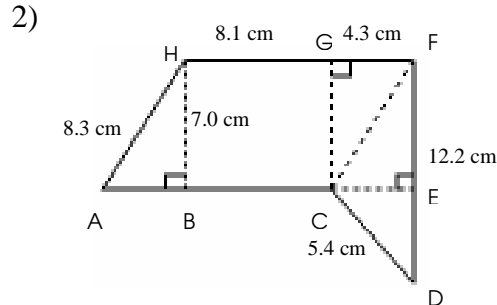
# Area and Perimeter of Compound Shapes Answer (C)

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



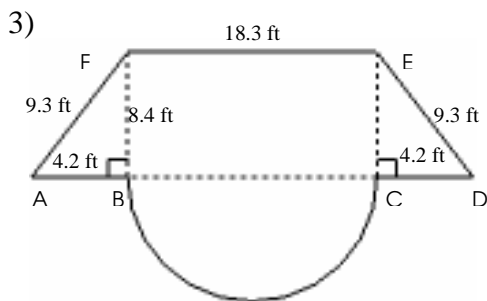
Area = Area of ABDE + Area of DFGH  
 $= (AB)^2 + (HG \times HF)$   
 $= (11.0)^2 + (21.1 \times 8.1)$   
 $= 291.9 \text{ mi}^2$

Perimeter =  $(3 \times AB) + (2 \times HF) + EF + HG$   
 $= (3 \times 11.0) + (2 \times 8.1) + 10.1 + 21.1$   
 $= 80.4 \text{ mi}$



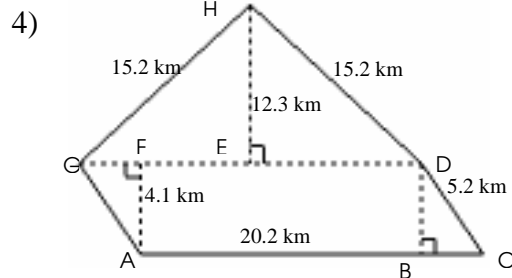
Area = Area of ACFH + Area of CDF  
 $= ((HG+GF) \times HB) + (0.5 \times CE \times DF)$   
 $= ((8.1+4.3) \times 7.0) + (0.5 \times 4.3 \times 12.2)$   
 $= 113.0 \text{ cm}^2$

Perimeter =  $(2 \times (HG+GF)) + AH + FD + CD$   
 $= (2 \times (8.1+4.3)) + 8.3 + 12.2 + 5.4$   
 $= 50.7 \text{ cm}$



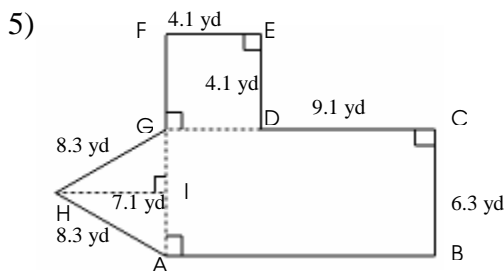
Area = Area of ADEF + Area of Part Circle BC  
 $= (0.5 \times (2 \times AB + BC + EF) \times BF) + 0.5 \Pi (0.5 BC)^2$   
 $= (0.5 \times (2 \times 4.2 + 18.3 + 18.3) \times 8.4) + 0.5 \Pi (0.5 \times 18.3)^2$   
 $= 320.4 \text{ ft}^2$

Perimeter =  $(2 \times AB) + \text{Arc BC} + (2 \times DE) + EF$   
 $= (2 \times 4.2) + 0.5 \times 3.14 \times 18.3 + (2 \times 9.3) + 18.3$   
 $= 74.0 \text{ ft}$



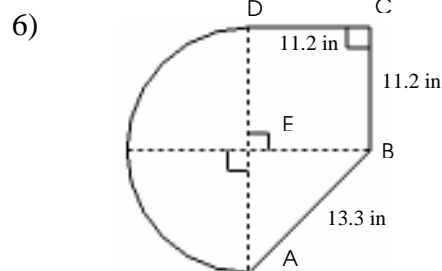
Area = Area of ACDG + Area of DGH  
 $= (AC \times AF) + (0.5 \times DG \times EH)$   
 $= (20.2 \times 4.1) + (0.5 \times 20.2 \times 12.3)$   
 $= 207.1 \text{ km}^2$

Perimeter =  $AC + (2 \times CD) + (2 \times DH)$   
 $= 20.2 + (2 \times 5.2) + (2 \times 15.2)$   
 $= 61 \text{ km}$



Area = Area of AGH + Area of ABCG + Area of DEFG  
 $= (0.5 \times AG \times HI) + ((CD+FE) \times BC) + (FE)^2$   
 $= (0.5 \times 6.3 \times 7.1) + ((9.1+4.1) \times 6.3) + (4.1)^2$   
 $= 122.3 \text{ yd}^2$

Perimeter =  $(2 \times AB) + BC + (2 \times FE) + (2 \times GH)$   
 $= (2 \times 13.2) + 6.3 + (2 \times 4.1) + (2 \times 8.3)$   
 $= 57.5 \text{ yd}$



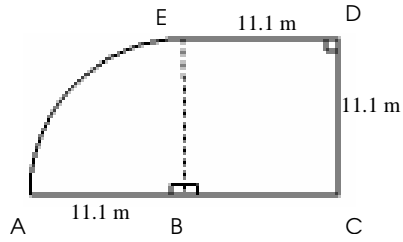
Area = Area of ABE + Area of BCDE + Area of Part Circle AED  
 $= (0.5 \times AE \times BE) + (BC)^2 + 0.5 \Pi (BC)^2$   
 $= (0.5 \times (11.2)^2) + (11.2)^2 + 0.5 \times 3.14 \times (11.2)^2$   
 $= 385.1 \text{ in}^2$

Perimeter =  $\text{Arc AD} + AB + (2 \times BC)$   
 $= 0.5 \times 3.14 \times 2 \times 11.2 + 13.3 + (2 \times 11.2)$   
 $= 70.9 \text{ in}$

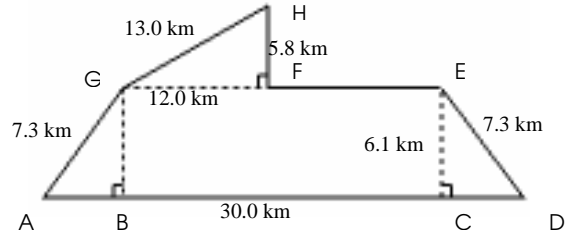
## Area and Perimeter of Compound Shapes (J)

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

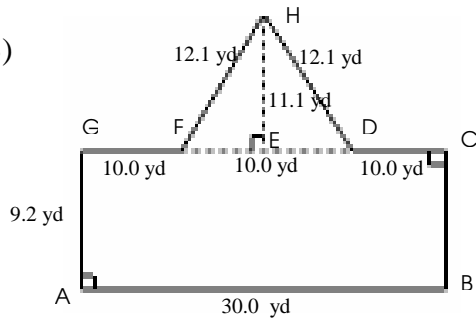
1)



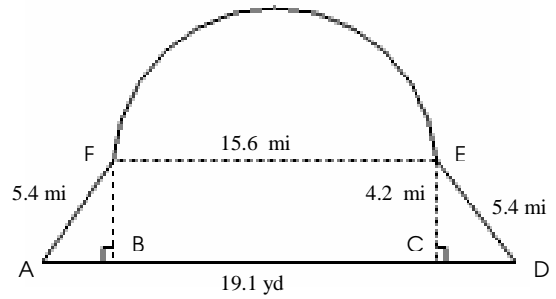
2)



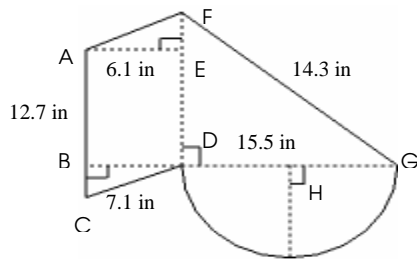
3)



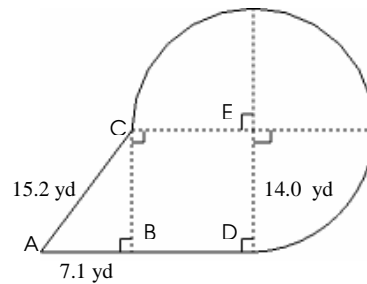
4)



5)



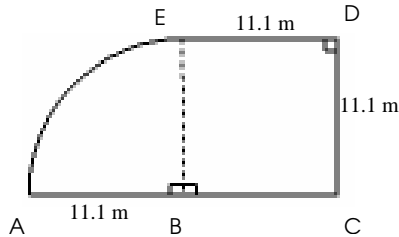
6)



# Area and Perimeter of Compound Shapes Answer (J)

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

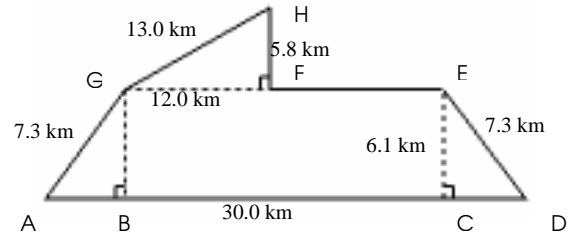
1)



Area = Area of BCDE + Area of Part Circle ABE  
 $= (DC)^2 + 0.25 \Pi (EB)^2$   
 $= (11.1)^2 + 0.25 \times 3.14 \times (11.1)^2$   
 $= 219.9 \text{ m}^2$

Perimeter =  $(4 \times CD) + \text{Arc AE}$   
 $= (4 \times 11.1) + (0.25 \times 3.14 \times 2 \times 11.1)$   
 $= 61.8 \text{ m}$

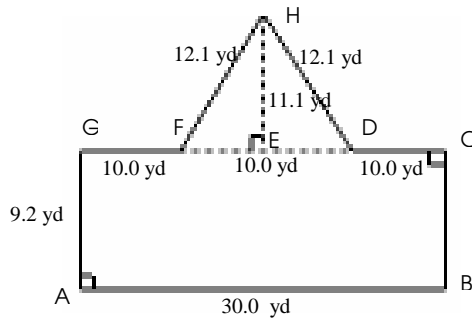
2)



Area = Area of ADEG + Area of FGH  
 $= (0.5 \times (AD + EF + FG) \times CE) + (0.5 \times FH \times FG)$   
 $= (0.5 \times (30.0 + 13.0 + 12.0) \times 6.1) + (0.5 \times 5.8 \times 12.0)$   
 $= 202.6 \text{ km}^2$

Perimeter =  $(2 \times AG) + AD + EF + FH + HG$   
 $= (2 \times 7.3) + 30.0 + 13.0 + 5.8 + 13.0$   
 $= 76.4 \text{ km}$

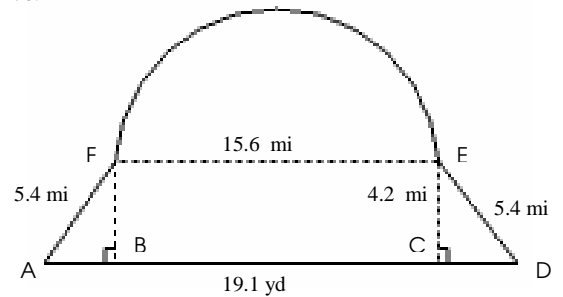
3)



Area = Area of ABCG + Area of FDH  
 $= (AD \times AG) + (0.5 \times DF \times EH)$   
 $= (30.0 \times 9.2) + (0.5 \times 10.0 \times 11.1)$   
 $= 331.5 \text{ yd}^2$

Perimeter =  $(2 \times AG) + AB + (2 \times FH) + (2 \times CD)$   
 $= (2 \times 9.2) + 30.0 + (2 \times 12.1) + (2 \times 10.0)$   
 $= 92.6 \text{ yd}$

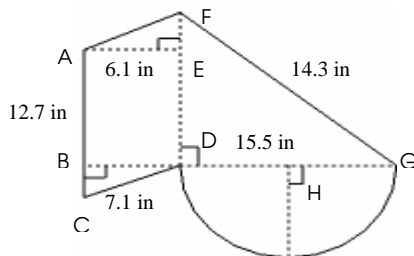
4)



Area = Area of ADEF + Area of Part Circle FE  
 $= (0.5 \times (AD + FE) \times CE) + 0.5 \Pi (0.5 FE)^2$   
 $= (0.5 \times (19.1 + 15.6) \times 4.2) + 0.5 \times 3.14 \times (0.5 \times 15.6)^2$   
 $= 168.4 \text{ mi}^2$

Perimeter =  $(2 \times AF) + AD + \text{Arc FE}$   
 $= 11.1 + 19.1 + (0.5 \times 3.14 \times 15.6)$   
 $= 54.4 \text{ mi}$

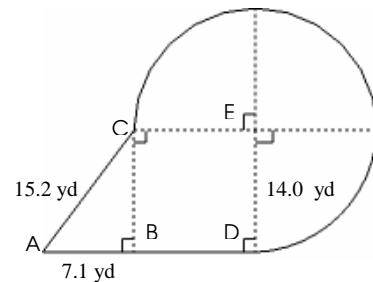
5)



Area = Area of (ACDF + DFG) + Area of Part Circle DHG  
 $= (AC \times AE) + (0.5 \times DG \times DF) + 0.5 \Pi (0.5 DG)^2$   
 $= (12.7 \times 6.1) + (0.5 \times 15.5 \times 12.7) + 0.5 \times 3.14 \times (0.5 \times 15.5)^2$   
 $= 270.2 \text{ in}^2$

Perimeter = Arc DG + FG +  $(2 \times AF) + AC$   
 $= (0.5 \times 3.14 \times 15.5) + 14.3 + (2 \times 7.1) + 12.7$   
 $= 65.5 \text{ ft}$

6)



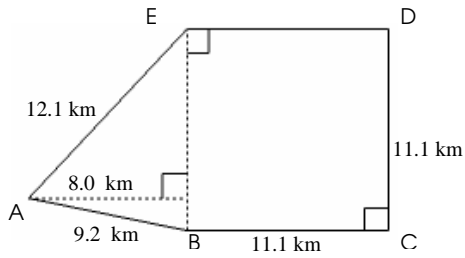
Area = Area of (ABD + BCDE) + Area of Part Circle CDE  
 $= (0.5 \times AB \times BC) + (ED)^2 + 0.75 \Pi (ED)^2$   
 $= (0.5 \times 7.1 \times 14.0) + (14.0)^2 + 0.75 \times 3.14 \times (14.0)^2$   
 $= 707.3 \text{ yd}^2$

Perimeter = AB + BD + Arc DE + CA  
 $= 7.1 + 14.0 + (0.75 \times 3.14 \times 2 \times 14.0) + 15.2$   
 $= 102.2 \text{ yd}$

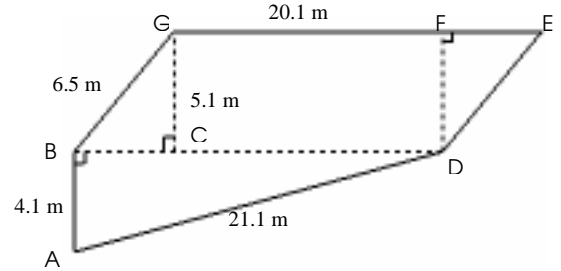
## Area and Perimeter of Compound Shapes (I)

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

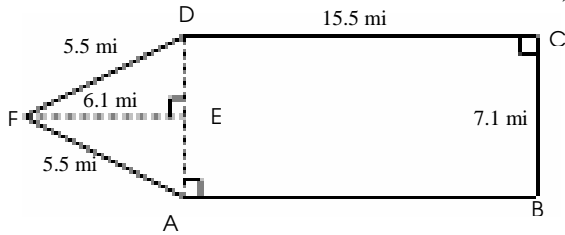
1)



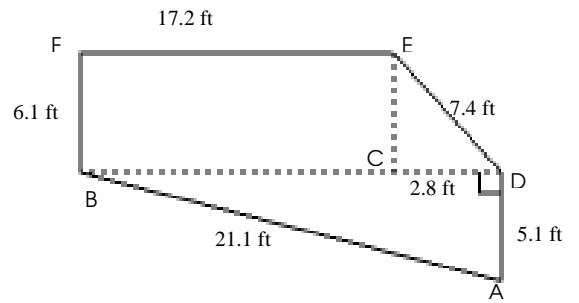
2)



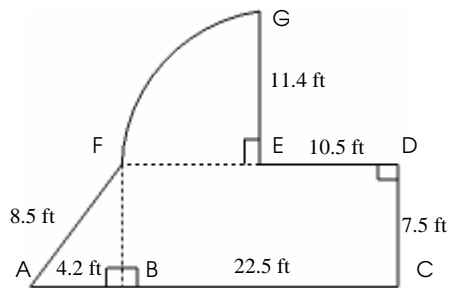
3)



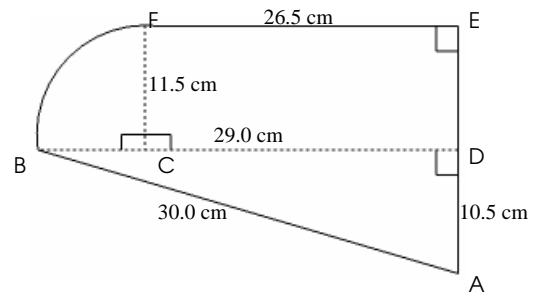
4)



5)



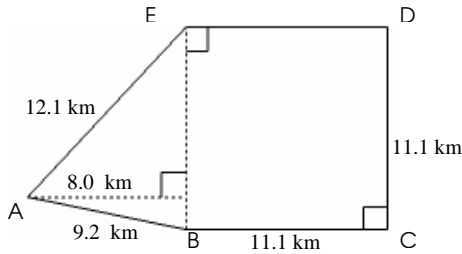
6)



# Area and Perimeter of Compound Shapes Answer (I)

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

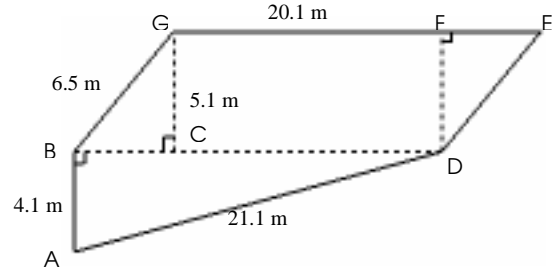
1)



Area = Area of ABE + Area of BCDE  
 $= (0.5 \times AB \times BE) + (BC \times CD)$   
 $= (0.5 \times 9.2 \times 12.1) + (11.1 \times 11.1)$   
 $= 167.6 \text{ km}^2$

Perimeter =  $AB + (3 \times CD) + AE$   
 $= 9.2 + (3 \times 11.1) + 12.1$   
 $= 54.6 \text{ km}$

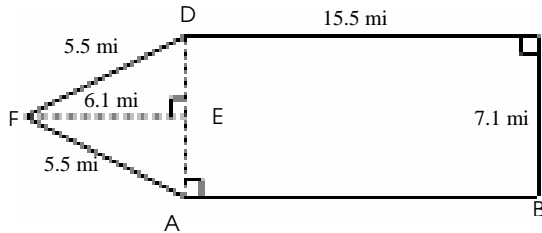
2)



Area = Area of ABD + Area of BDEG  
 $= (0.5 \times AD \times AB) + (CG \times EG)$   
 $= (0.5 \times 20.1 \times 4.1) + (5.1 \times 20.1)$   
 $= 143.7 \text{ m}^2$

Perimeter =  $AB + AD + (2 \times BG) + EG$   
 $= 4.1 + 21.1 + (2 \times 6.5) + 20.1$   
 $= 58.3 \text{ m}$

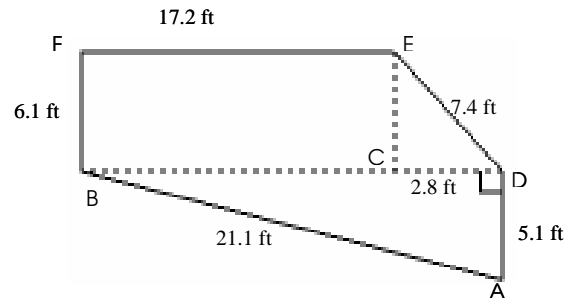
3)



Area = Area of ABCD + Area of ADF  
 $= (BC \times CD) + (0.5 \times BC \times FE)$   
 $= (7.1 \times 15.5) + (0.5 \times 7.1 \times 6.1)$   
 $= 131.7 \text{ mi}^2$

Perimeter =  $(2 \times AB) + BC + (2 \times AF)$   
 $= (2 \times 15.5) + 7.1 + (2 \times 5.5)$   
 $= 49.1 \text{ mi}$

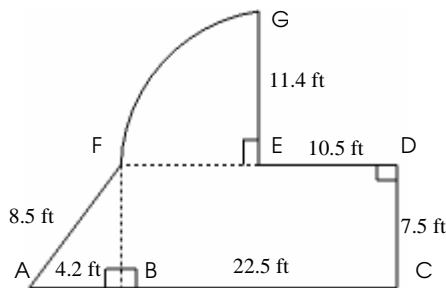
4)



Area = Area of ABD + Area of BDEF  
 $= (0.5 \times AD \times AB) + (0.5 \times (BD + EF) \times CE)$   
 $= (0.5 \times 21.1 \times 6.1) + (0.5 \times (20.0 + 17.2) \times 6.1)$   
 $= 167.3 \text{ ft}^2$

Perimeter =  $AB + AD + ED + EF + FB$   
 $= 6.1 + 21.1 + 5.1 + 7.4 + 17.2 + 6.1$   
 $= 56.9 \text{ ft}$

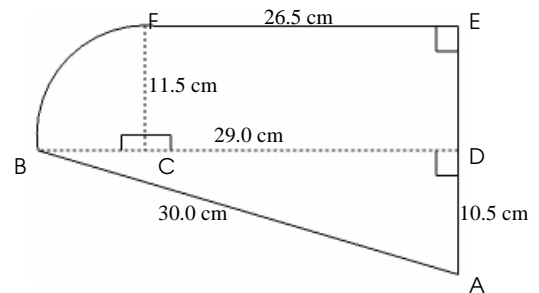
5)



Area = Area of (ABF + BCDF) + Area of Part Circle EFG  
 $= (0.5 \times AB \times BF) + (BC \times CD) + 0.25 \Pi (FE)^2$   
 $= (0.5 \times 4.2 \times 8.5) + (22.5 \times 7.5) + 0.25 \times 3.14 \times (11.4)^2$   
 $= 286.5 \text{ ft}^2$

Perimeter =  $AB + BC + CD + DE + \text{Arc FG} + FA + EG$   
 $= 4.2 + 22.5 + 7.5 + 10.5 + (0.25 \times 3.14 \times 2 \times 11.4) + 8.5 + 11.4$   
 $= 82.5 \text{ ft}$

6)



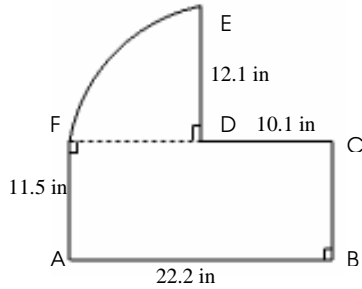
Area = Area of ABD + CDEF + Area of Part Circle BC  
 $= (0.5 \times AD \times BD) + (EF \times CF) + 0.25 \Pi (EC)^2$   
 $= (0.5 \times 10.5 \times 29.0) + (26.5 \times 11.5) + 0.25 \times 3.14 \times (11.5)^2$   
 $= 560.8 \text{ cm}^2$

Perimeter =  $BA + AD + ED + EF + \text{Arc BC}$   
 $= 10.5 + 30.0 + 10.5 + 11.5 + 26.5 + (0.25 \times 3.14 \times 2 \times 11.5)$   
 $= 96.6 \text{ cm}$

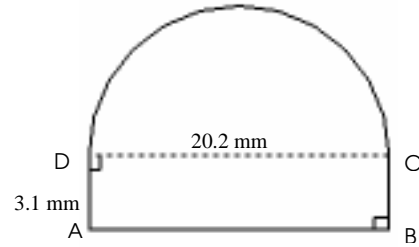
## Area and Perimeter of Compound Shapes (A)

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

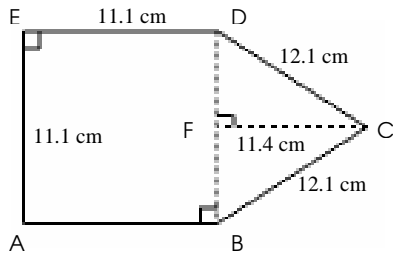
1)



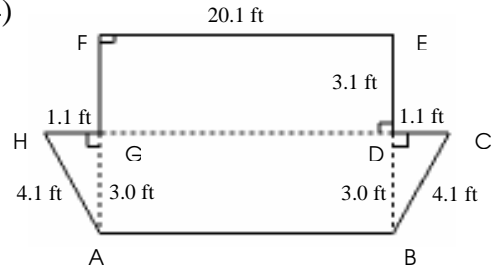
2)



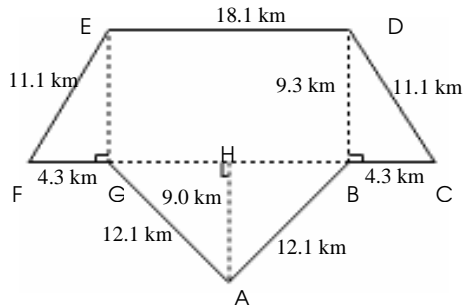
3)



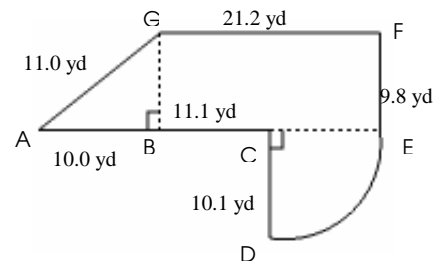
4)



5)



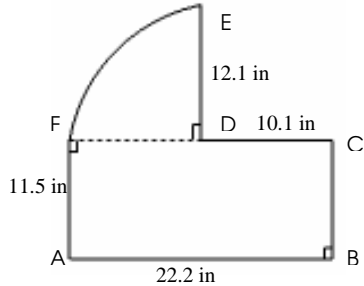
6)



# Area and Perimeter of Compound Shapes Answer (A)

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

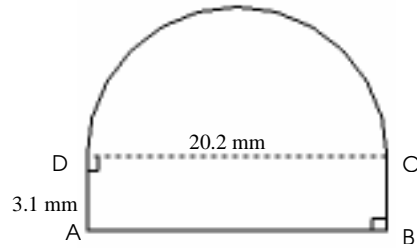
1)



Area = Area of ABCF + Area of Part Circle DEF  
 $= (AB \times AF) + 0.25 \Pi (DE)^2$   
 $= (22.2 \times 11.5) + 0.25 \times 3.14 (12.1)^2$   
 $= 370.2 \text{ in}^2$

Perimeter =  $AB + BC + CD + DE + \text{Arc } EF + AF$   
 $= 22.2 + 11.5 + 10.1 + 12.1 + 0.25 \times 3.14 \times 2 \times 12.1 + 11.5$   
 $= 86.4 \text{ in}$

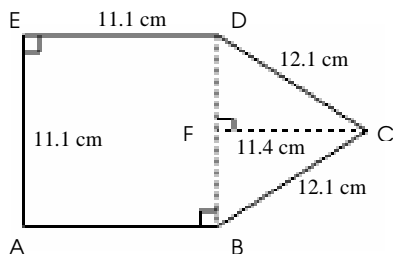
2)



Area = Area of ABCD + Area of Part Circle DC  
 $= (AD \times AB) + 0.5 \Pi (0.5 DC)^2$   
 $= (3.1 \times 20.2) + 0.5 \times 3.14 (0.5 \times 20.2)^2$   
 $= 222.8 \text{ mm}^2$

Perimeter =  $AB + \text{Arc } BC + (2 \times AD)$   
 $= 20.2 + (0.5 \times 3.14 \times 20.2) + (2 \times 3.1)$   
 $= 58.1 \text{ mm}$

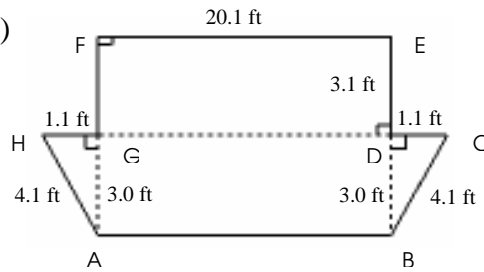
3)



Area = Area of ABDE + Area of BDC  
 $= (ED)^2 + (0.5 \times BD \times FC)$   
 $= (11.1)^2 + (0.5 \times 11.1 \times 11.4)$   
 $= 186.5 \text{ cm}^2$

Perimeter =  $(3 \times ED) + (2 \times CD)$   
 $= (3 \times 11.1) + (2 \times 12.1)$   
 $= 57.5 \text{ cm}$

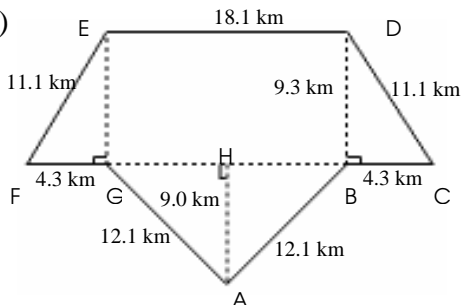
4)



Area = Area of ABCH + Area of DEFG  
 $= (0.5 \times (AB + GD) \times BD) + (EF \times DE)$   
 $= (0.5 \times ((2 \times 20.1) + (2 \times 1.1)) \times 3.0) + (20.1 \times 3.1)$   
 $= 125.9 \text{ ft}^2$

Perimeter =  $(2 \times AH) + (2 \times EF) + (2 \times DE) + (2 \times GH)$   
 $= (2 \times 4.1) + (2 \times 20.1) + (2 \times 3.1) + (2 \times 1.1)$   
 $= 56.8 \text{ ft}$

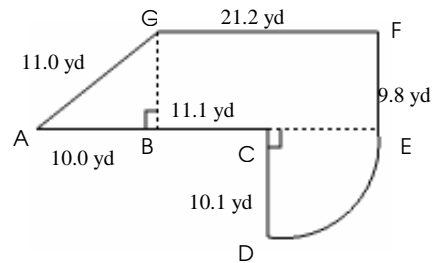
5)



Area = Area of CDEF + Area of ABG  
 $= (0.5 \times ((2 \times BC) + (2 \times ED)) \times BD) + (0.5 \times AH \times BG)$   
 $= (0.5 \times ((2 \times 4.3) + (2 \times 18.1)) \times 9.3) + (0.5 \times 9.0 \times 18.1)$   
 $= 289.8 \text{ km}^2$

Perimeter =  $(2 \times AB) + (2 \times BC) + (2 \times CD) + ED$   
 $= (2 \times 12.1) + (2 \times 4.3) + (2 \times 11.1) + 18.1$   
 $= 73.1 \text{ km}$

6)



Area = Area of AEFB + Area of Part Circle CDE  
 $= (0.5 \times (AB + BC + CE + GF) \times 9.8) + 0.25 \Pi (CE)^2$   
 $= (0.5 \times (10.0 + 11.1 + 10.1 + 21.2) \times 9.8) + 0.25 \Pi (10.1)^2$   
 $= 336.8 \text{ yd}^2$

Perimeter =  $AC + CD + \text{Arc } ED + EF + FG + GA$   
 $= 21.1 + 10.1 + 0.25 \times 3.14 \times 2 \times 10.1 + 9.8 + 21.2 + 11.0$   
 $= 89.1 \text{ yd}$