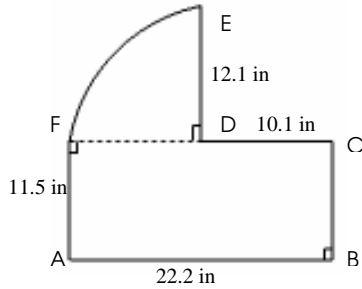


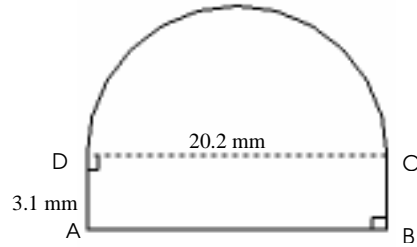
Area and Perimeter of Compound Shapes (A)

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

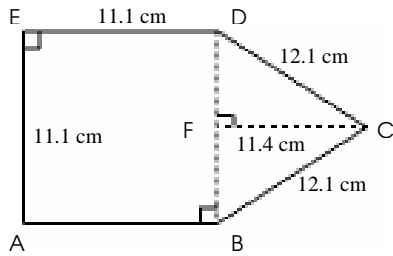
1)



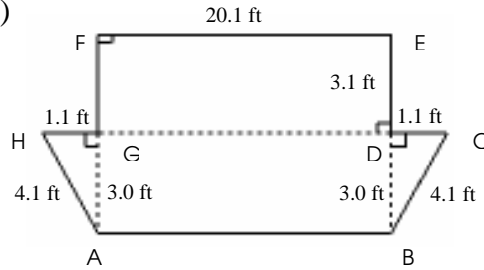
2)



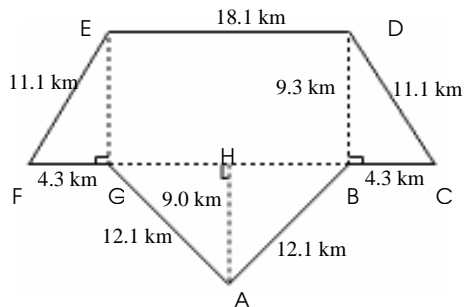
3)



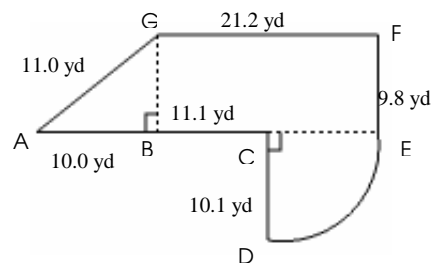
4)



5)



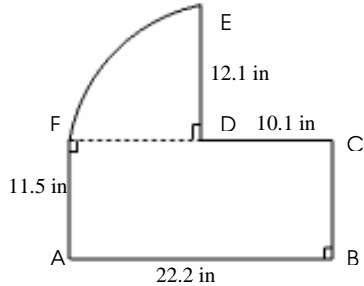
6)



Area and Perimeter of Compound Shapes Answer (A)

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

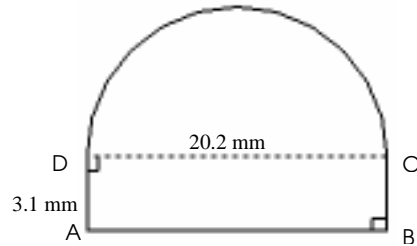
1)



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

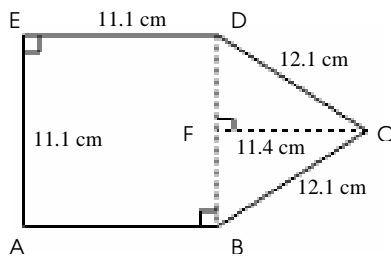
2)



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

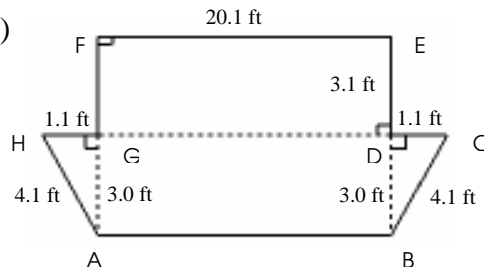
3)



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

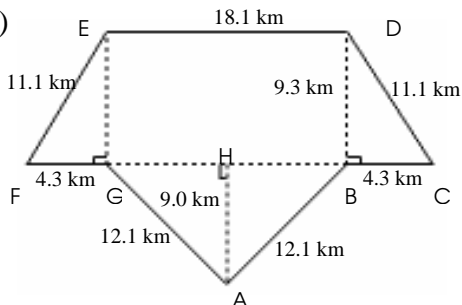
4)



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

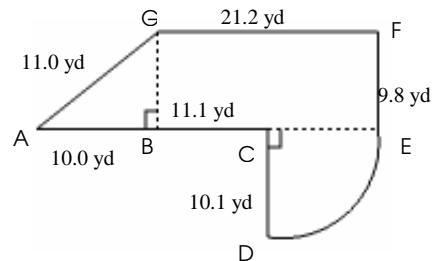
5)



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