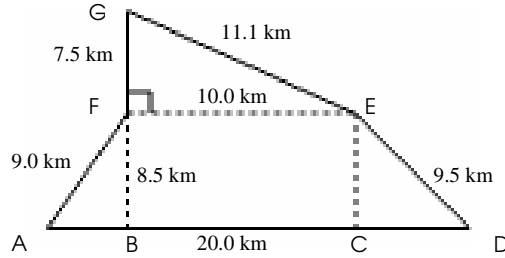


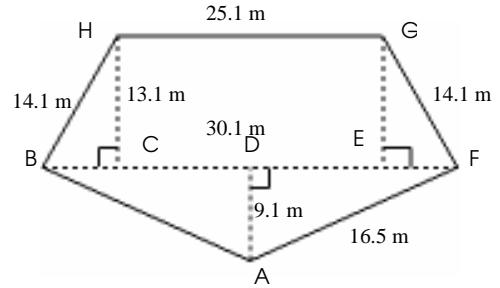
Area and Perimeter of Compound Shapes (G)

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

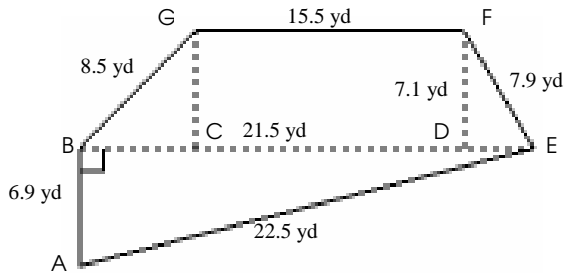
1)



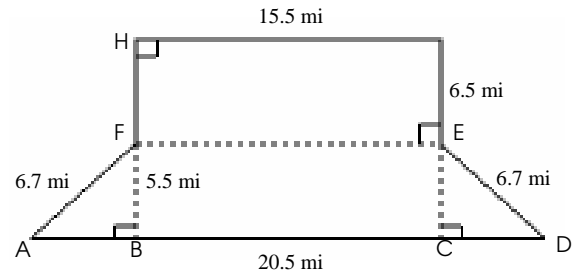
2)



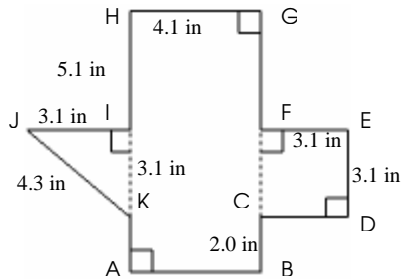
3)



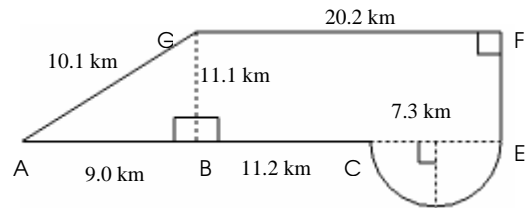
4)



5)

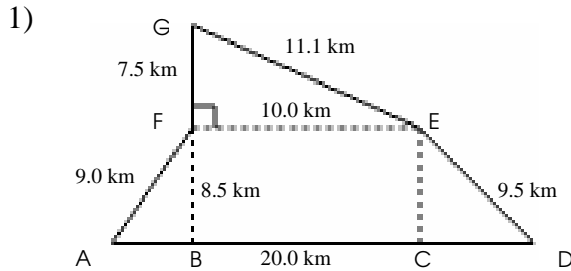


6)



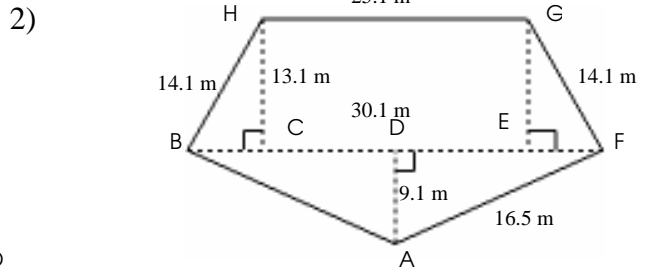
Area and Perimeter of Compound Shapes Answer (G)

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



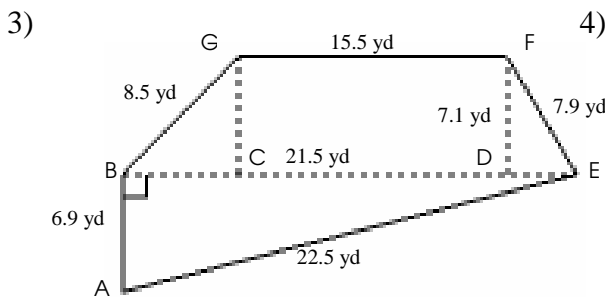
Area = Area of ADEF + Area of EFG
 $= (0.5 \times (AD + EF) \times BF) + (0.5 \times EF \times FG)$
 $= (0.5 \times (20.0 + 10.0) \times 8.5) + (0.5 \times 10.0 \times 7.5)$
 $= 165.0 \text{ km}^2$

Perimeter = $AD + DE + EG + GF + FA$
 $= 20.0 + 9.5 + 11.1 + 7.5 + 9.0$
 $= 57.1 \text{ km}$



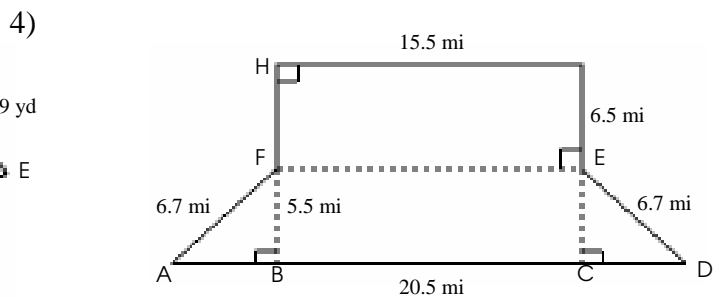
Area = Area of ABF + Area of BFGH
 $= (0.5 \times AD \times BF) + (0.5 \times (BF + GH) \times CH)$
 $= (0.5 \times 9.1 \times 30.1) + (0.5 \times (30.1 + 25.1) \times 13.1)$
 $= 498.5 \text{ m}^2$

Perimeter = $(2 \times AF) + GH + (2 \times FG)$
 $= (2 \times 16.5) + 25.1 + (2 \times 14.1)$
 $= 86.3 \text{ m}$



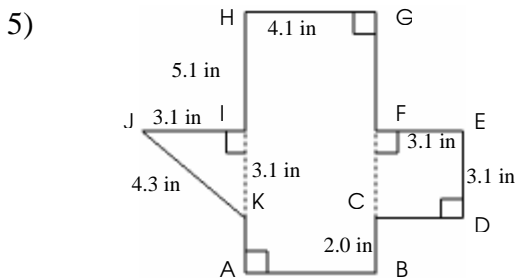
Area = Area of ABE + Area of BEFG
 $= (0.5 \times AB \times BE) + (0.5 \times (BE + GF) \times DF)$
 $= (0.5 \times 6.9 \times 21.5) + (0.5 \times (21.5 + 15.5) \times 7.1)$
 $= 205.5 \text{ yd}^2$

Perimeter = $BA + AE + EF + FG + GB$
 $= 6.9 + 22.5 + 7.9 + 15.5 + 8.5$
 $= 61.3 \text{ yd}$



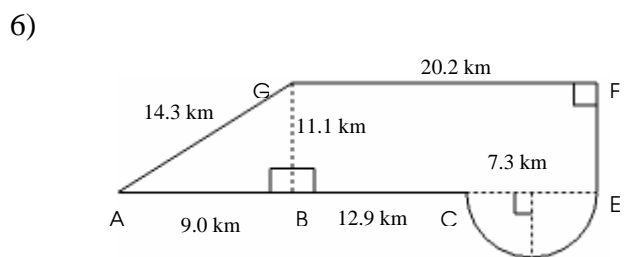
Area = Area of ADEF + Area of EFGH
 $= (0.5 \times (AD + FE) \times BF) + (EG \times GH)$
 $= (0.5 \times (20.5 + 15.5) \times 5.5) + (6.5 \times 15.5)$
 $= 199.8 \text{ mi}^2$

Perimeter = $(2 \times AF) + AD + (2 \times EG) + GH$
 $= (2 \times 6.7) + 20.5 + (2 \times 6.5) + 15.5$
 $= 62.4 \text{ mi}$



Area = Area of IJK + Area of ABGH + Area of CDEF
 $= (0.5 \times IK \times JK) + ((GF + ED + BC) \times AB) + (FE)^2$
 $= (0.5 \times 3.1 \times 3.1) + ((5.1 + 3.1 + 2.0) \times 4.1) + (3.1)^2$
 $= 56.2 \text{ in}^2$

Perimeter = $(2 \times AB) + (2 \times BC) + (3 \times FE) + (2 \times GF) + IJ + JK$
 $= (2 \times 4.1) + (2 \times 2.0) + (3 \times 3.1) + (2 \times 5.1) + 3.1 + 4.3$
 $= 39.1 \text{ in}$



Area = Area of ABG + Area of BEFG + Area of Part Circle CE
 $= (0.5 \times AB \times BG) + (BG \times FG) + 0.5 \Pi (0.5 CE)^2$
 $= (0.5 \times 9.0 \times 11.1) + (11.1 \times 20.2) + 0.5 \Pi (0.5 \times 7.3)^2$
 $= 295.1 \text{ km}^2$

Perimeter = $AB + BC + \text{Arc CE} + FE + FG + GA$
 $= 9.0 + 12.9 + 0.5 \times 3.14 \times 7.3 + 11.1 + 20.2 + 14.3$
 $= 79.0 \text{ km}$