# Area and Perimeter of Composite Shapes (F)

Name: _____      Date: _____      Score: _____

Calculate the area and perimeter of each figure. Round to the number of decimals in the measurements.

**1.**



**2.**



**3.**



**4.**



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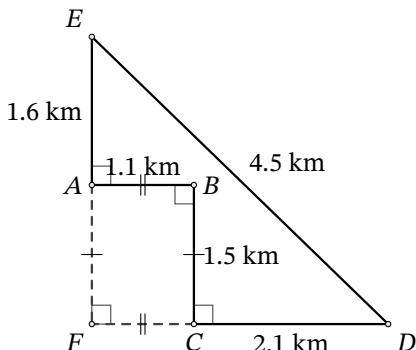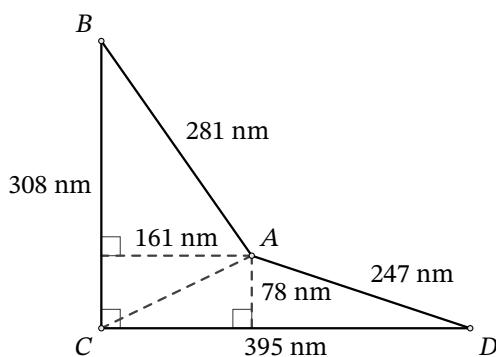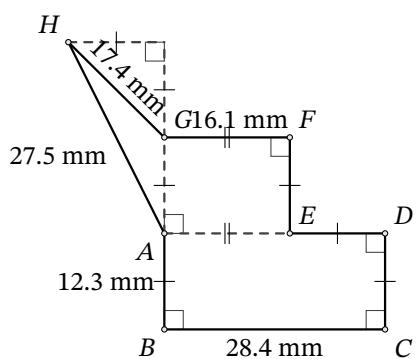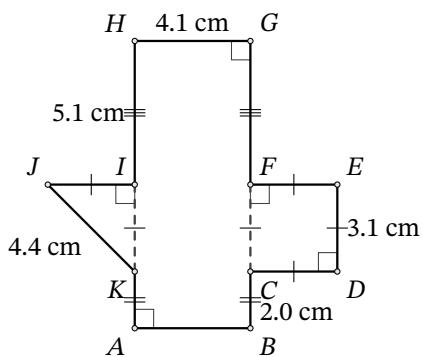
# Area and Perimeter of Composite Shapes (F) Answers

Name: _____     Date: _____     Score: _____

Calculate the area and perimeter of each figure. Round to the number of decimals in the measurements.

**1.**
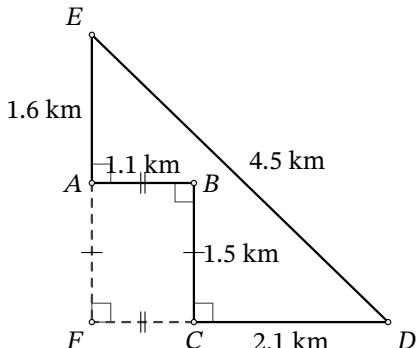


**Area**

(Area of $DEF$) − (Area of $AFCB$)
$= \left(\frac{3.2 \times 3.1}{2}\right) - (1.5 \times 1.1)$
$= 4.96 - 1.65$
$= 3.3 \text{ km}^2$

**Perimeter**

$= AB + BC + CD + DE + EA$
$= 1.1 + 1.5 + 2.1 + 4.5 + 1.6$
$= 10.8 \text{ km}$

**2.**
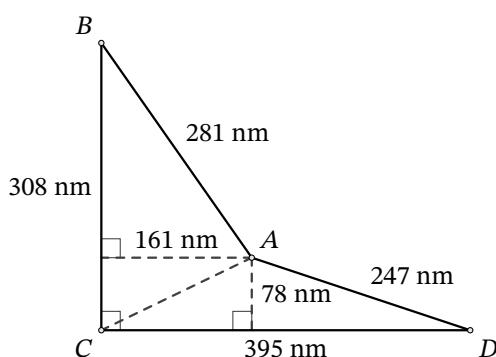


**Area**

(Area of $ABC$) + (Area of $ACD$)
$= \left(\frac{308 \times 161}{2}\right) + \left(\frac{395 \times 78}{2}\right)$
$= 24{,}794 + 15{,}405$
$= 40{,}199 \text{ nm}^2$

**Perimeter**

$= AB + BC + CD + DA$
$= 281 + 308 + 395 + 247$
$= 1231 \text{ nm}$

**3.**
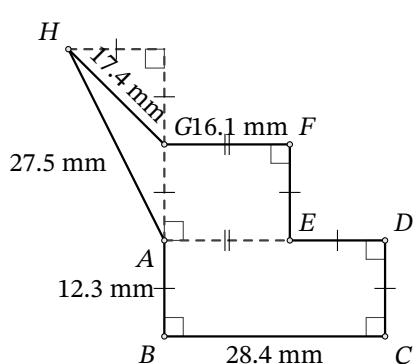


**Area**

(Area of $ABCD$) + (Area of $AEFG$) + (Area of $AGH$)
$= (12.3 \times 28.4) + (12.3 \times 16.1) + \left(\frac{12.3 \times 12.3}{2}\right)$
$= 349.32 + 198.03 + 75.645$
$= 623.0 \text{ mm}^2$

**Perimeter**

$= AB + BC + CD + DE + EF + FG + GH + HA$
$= 12.3 + 28.4 + 12.3 + 12.3 + 12.3 + 16.1 + 17.4 + 27.5$
$= 138.6 \text{ mm}$

**4.**
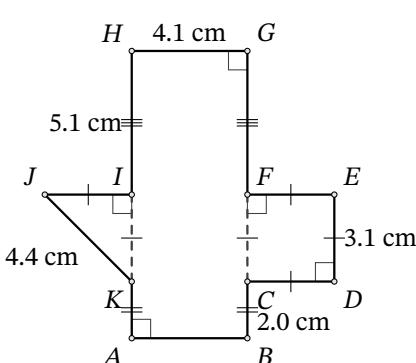


**Area**

(Area of $IJK$) + (Area of $ABGH$) + (Area of $CDEF$)
$= \left(\frac{3.1 \times 3.1}{2}\right) + (10.2 \times 4.1) + \left(3.1^2\right)$
$= 4.805 + 41.82 + 9.61$
$= 56.2 \text{ cm}^2$

**Perimeter**

$= AB + BC + CD + DE + EF + FG + GH + HI + IJ + JK + KA$
$= 4.1 + 2.0 + 3.1 + 3.1 + 3.1 + 5.1 + 4.1 + 5.1 + 3.1 + 4.4 + 2.0$
$= 39.2 \text{ cm}$

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