

# Area and Perimeter of Composite Shapes (G)

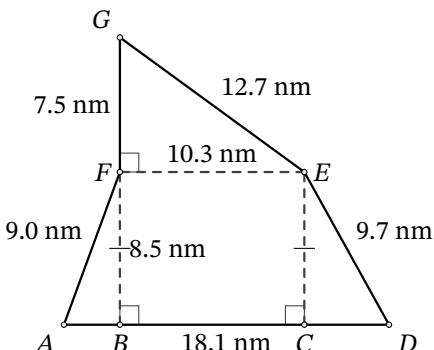
Name: \_\_\_\_\_

Date: \_\_\_\_\_

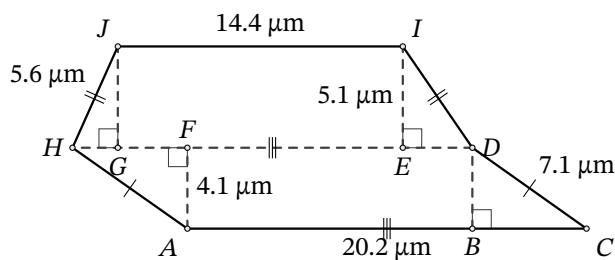
Score: \_\_\_\_\_

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

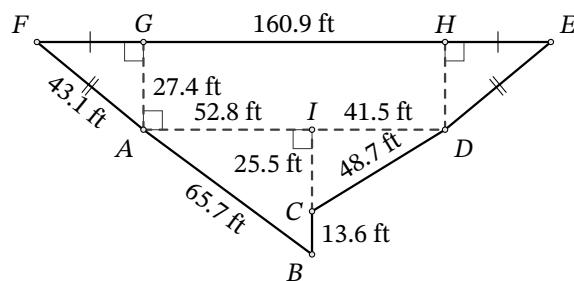
1.



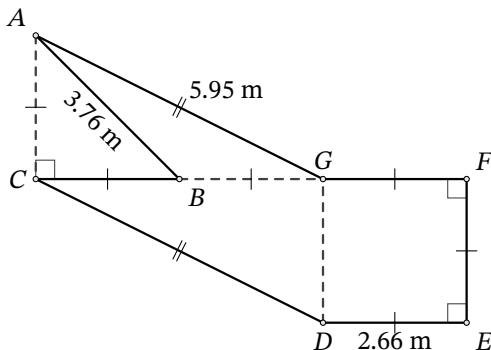
2.



3.



4.



# Area and Perimeter of Composite Shapes (G) Answers

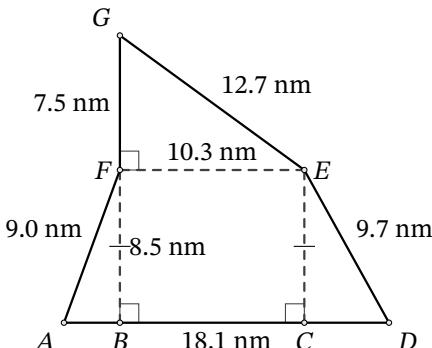
Name: \_\_\_\_\_

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Score: \_\_\_\_\_

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

1.



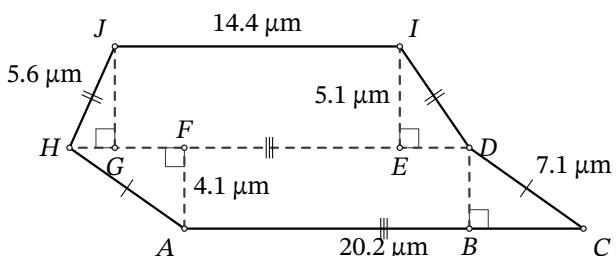
### Area

$$\begin{aligned} & (\text{Area of } ADEF) + (\text{Area of } EGF) \\ &= \left( \frac{18.1+10.3}{2} \times 8.5 \right) + \left( \frac{10.3 \times 7.5}{2} \right) \\ &= 120.7 + 38.625 \\ &= 159.3 \text{ nm}^2 \end{aligned}$$

### Perimeter

$$\begin{aligned} & = AD + DE + EG + GF + FA \\ &= 18.1 + 9.7 + 12.7 + 7.5 + 9.0 \\ &= 57.0 \text{ nm} \end{aligned}$$

2.



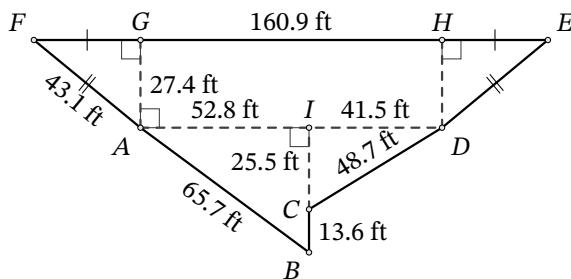
### Area

$$\begin{aligned} & (\text{Area of } ACDH) + (\text{Area of } DIJH) \\ &= (20.2 \times 4.1) + \left( \frac{20.2+14.4}{2} \times 5.1 \right) \\ &= 82.82 + 88.23 \\ &= 171.1 \mu\text{m}^2 \end{aligned}$$

### Perimeter

$$\begin{aligned} & = AC + CD + DI + IJ + JH + HA \\ &= 20.2 + 7.1 + 5.6 + 14.4 + 5.6 + 7.1 \\ &= 60.0 \mu\text{m} \end{aligned}$$

3.



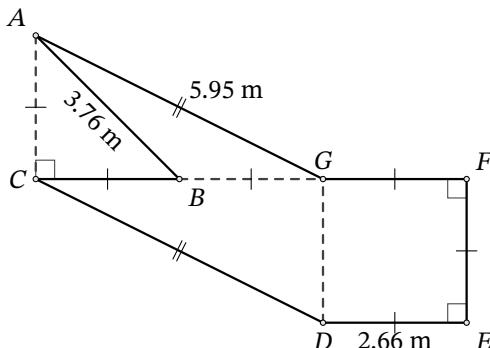
### Area

$$\begin{aligned} & (\text{Area of } ABI) + (\text{Area of } CDI) + (\text{Area of } ADEF) \\ &= \left( \frac{52.8 \times 39.1}{2} \right) + \left( \frac{41.5 \times 25.5}{2} \right) + \left( \frac{160.9+94.3}{2} \times 27.4 \right) \\ &= 1032.24 + 529.125 + 3496.24 \\ &= 5057.6 \text{ ft}^2 \end{aligned}$$

### Perimeter

$$\begin{aligned} & = AB + BC + CD + DE + EF + FA \\ &= 65.7 + 13.6 + 48.7 + 43.1 + 160.9 + 43.1 \\ &= 375.1 \text{ ft} \end{aligned}$$

4.



### Area

$$\begin{aligned} & (\text{Area of } ACDG) - (\text{Area of } ACB) + (\text{Area of } DEFG) \\ &= (2.66 \times 5.32) - \left( \frac{2.66 \times 2.66}{2} \right) + (2.66^2) \\ &= 14.1512 - 3.5378 + 7.0756 \\ &= 17.69 \text{ m}^2 \end{aligned}$$

### Perimeter

$$\begin{aligned} & = AB + BC + CD + DE + EF + FG + GA \\ &= 3.76 + 2.66 + 5.95 + 2.66 + 2.66 + 2.66 + 5.95 \\ &= 26.3 \text{ m} \end{aligned}$$