

Name: _____

Period: _____ Date: _____

Perimeter and Area of Plane Figures **Answers**

Section I. Find A) the perimeter or circumference and B) the area of the shaded region of each figure.

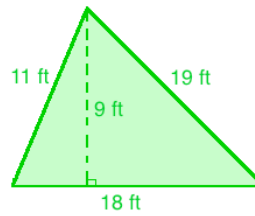
1.



$$P = 74\text{cm}$$

$$A = 252\text{cm}^2$$

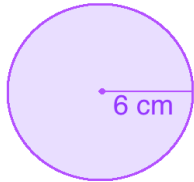
2.



$$P = 48\text{ft}$$

$$A = 81\text{ft}^2$$

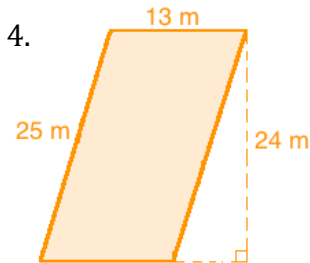
3.



$$C = 12\pi\text{ cm or } 37.68\text{cm}$$

$$A = 36\pi\text{ cm}^2\text{ or } 113.04\text{cm}^2$$

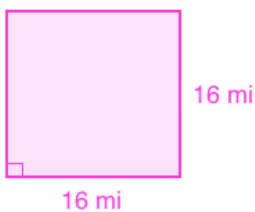
4.



$$P = 76\text{m}$$

$$A = 312\text{m}^2$$

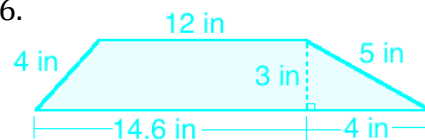
5.



$$P = 64\text{mi}$$

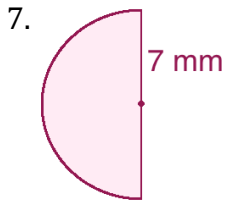
$$A = 256\text{mi}^2$$

6.



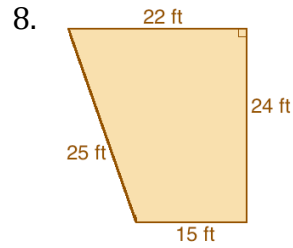
$$P = 39.6\text{in}$$

$$A = 45.9\text{in}^2$$



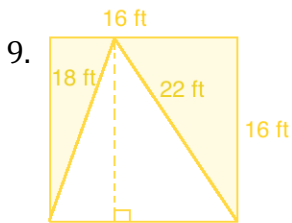
$$P = 7\pi + 14\text{mm} \text{ or } 35.98 \text{ mm}$$

$$A = 24.5\pi \text{ mm}^2 \text{ or } 76.93 \text{ mm}^2$$



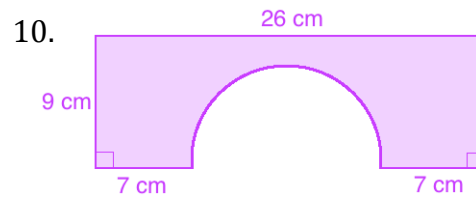
$$P = 86\text{ft}$$

$$A = 444 \text{ ft}^2$$



$$P = 88 \text{ ft}$$

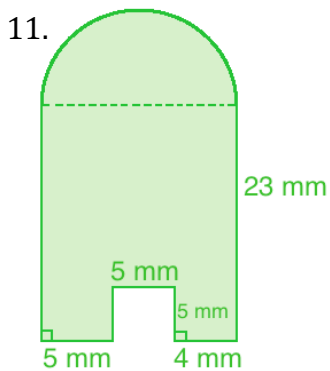
$$A = 128 \text{ ft}^2$$



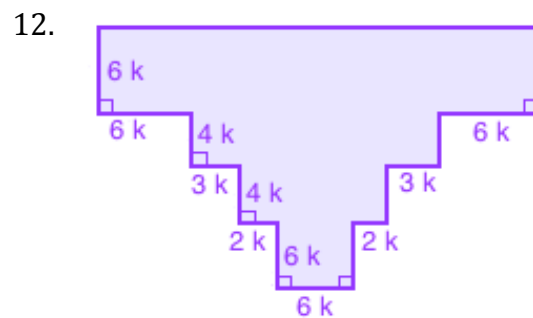
$$P = 6\pi + 58\text{cm} \text{ or } 76.84 \text{ cm}$$

$$A = 234 - 18\pi \text{ cm}^2 \text{ or } 177.48 \text{ cm}^2$$

Section II. Find the perimeter of each composite figure if possible.

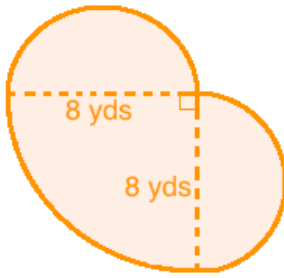


$$P = 7\pi + 70\text{mm} \text{ or } 91.98 \text{ mm}$$



$$P = 96 \text{ k}$$

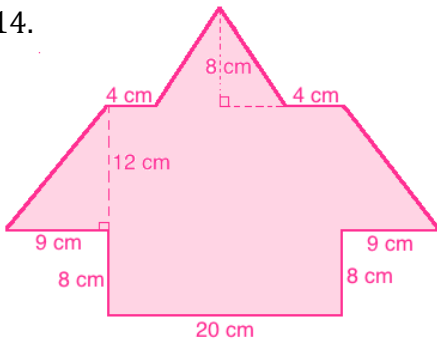
13.



$$P = 7\pi + 70\text{mm or } 91.98\text{ mm}$$

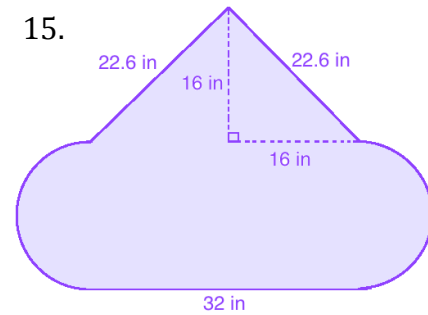
Section III. Find the area of each composite figure if possible.

14.



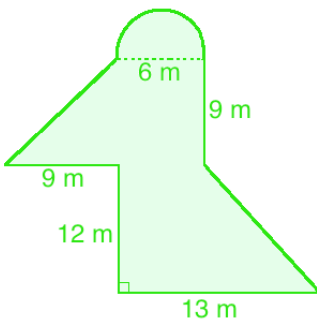
$$A = 556\text{ cm}^2$$

15.



not possible

16.



$$A = 208.5 + 4.5\pi\text{ m}^2\text{ or } 222.63\text{ m}^2$$