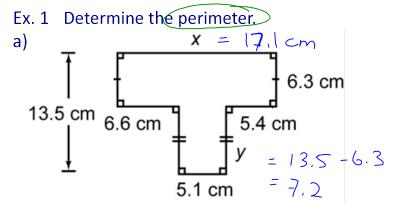
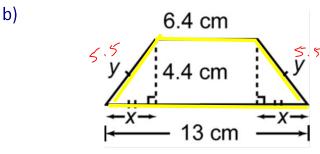
5.7 Perimeter and Area of Composite Figures

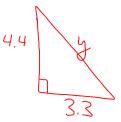


A Composite Figure is "composed", or made up of more than one shape.

P=17.1+6.3+5.4+7.2+5.1+7.2+6.6+6.3 =61.2cm



$$\chi = \frac{13 - 6.4}{2}$$
= 3.3



$$y^{2} = 4.4^{2} + 3.3^{2}$$

$$= 10.89 + 19.36$$

$$= 30.25$$

$$y = \sqrt{30.25}$$

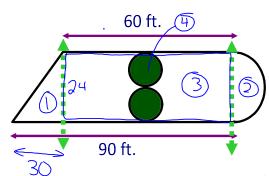
$$= 5.5$$

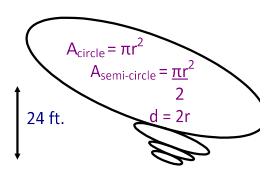
TIP of the day:



Use a highlighter to outline the perimeter so that you don't add inside pieces!

Ex. 2 Find the area of the non-shaded part.





$$1 = \frac{30(24)}{2}$$
= $\frac{30(24)}{2}$

(3)
$$A = l \times \omega$$

= (60)(24)
= 1440 ft²

$$\begin{array}{ccc}
(2) & A = \overline{\prod_{r}}^2 & A = 24 \\
& = \overline{\prod_{r}} (12)^2 \\
& = 226.1 & \text{ft}^2
\end{array}$$

$$= 360 \text{ ft}^{2}$$

$$= 1440 \text{ ft}^{2}$$

$$= 11 \text{ ft}^{2}$$

$$= 113 \text{ ft}^{2}$$

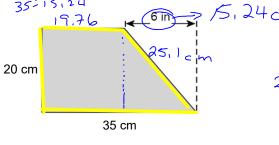
$$= 226 \text{ ft}^{2}$$

$$\frac{A11}{A} = 0 + 2 + 3 - 4 - 4$$

$$= 360 + 226.1 + 1440 - 113.1 - 113.1$$

$$= 1800 + 2$$

Find the perimeter.



$$P = 20 + 19.76 + 25.1 + 35$$

= 9986cm

$$\chi^{2} = 15.24^{2} + 20^{2}$$

$$\chi^{2} = 232.26 + 400$$

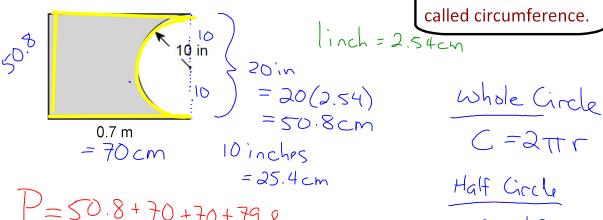
$$\chi^{2} = 632.26$$

$$\chi = \sqrt{632.26}$$

$$= 25.1 cm$$

Ex. 4 Find the perimeter of the shaded region.

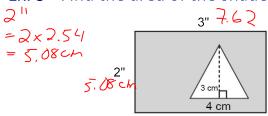
Perimeter of a circle is called circumference.



$$P = 50.8 + 70 + 70 + 79.8$$

= 270.6 cm

Ex. 5 Find the area of the shaded region.



$$3^{11} = 3 \times 2.54$$

= 7.62 cm

$$A = A_{RECT} - A_{TRI}$$

= 38.71 - 6
= 32.71 cm²

ARECT =
$$1 \times 10^{2}$$

= 5.08×7.62
= 38.71 cm^{2}
ATR1 = $\frac{5.6}{2}$
= $\frac{3.4}{2}$
= 6 cm^{2}

