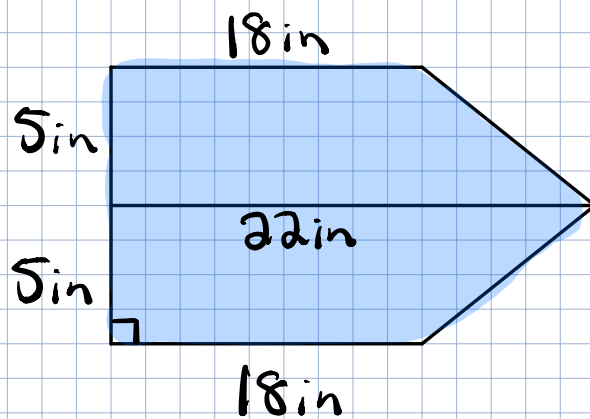


12/5/19

Parts of a Circle and Circumference ⁽⁴⁾

Warm Up (Review)

① Find the area.



$$A = \frac{1}{2} h (b_1 + b_2)$$

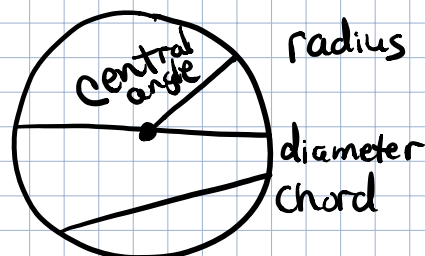
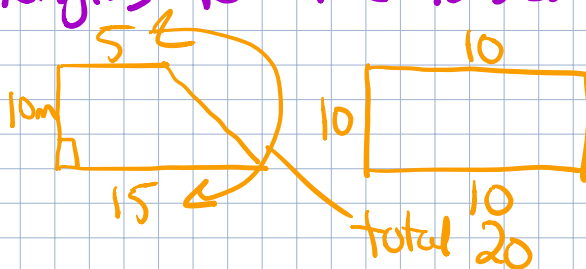
$$A = \frac{1}{2} (5) (22 + 18)$$

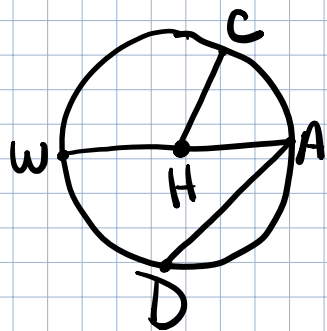
$$A = 100 \text{ in}^2$$

$$100(2) = 200 \text{ in}^2$$

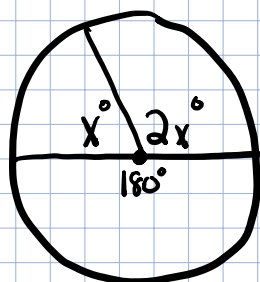
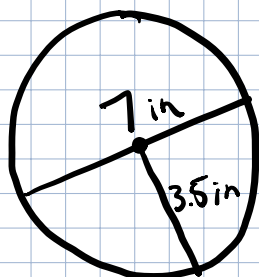
② The area of a trapezoid is 100 m^2 .

The height is 10 m . Give two possible lengths for the bases.





$\odot H$
 radius \overline{CH}
 diameter \overline{WA}
 chord \overline{AD}



360°

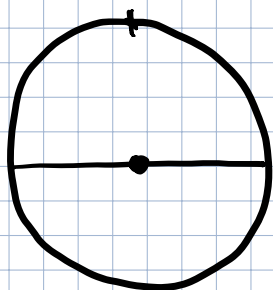
$$x + 2x + 180 = 360$$

$$x + 2x = 180$$

$$3x = 180$$

$$x = 60^\circ$$

Circumference = distance around the outside

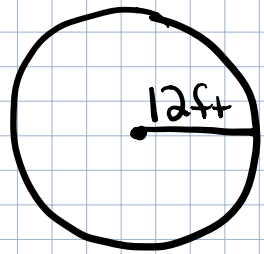


~~$$\frac{C}{d} = \pi \cdot d$$~~

$$d = 2r$$

$$C = \pi d \quad \text{or} \quad C = 2\pi r$$

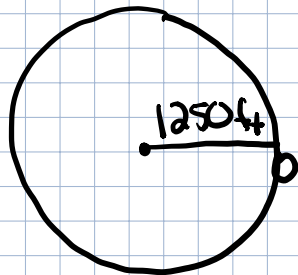
use 3.14 unless told otherwise



$$C = \pi d$$

$$C = 3.14(24)$$

$$C \approx 75.36 \text{ ft}$$

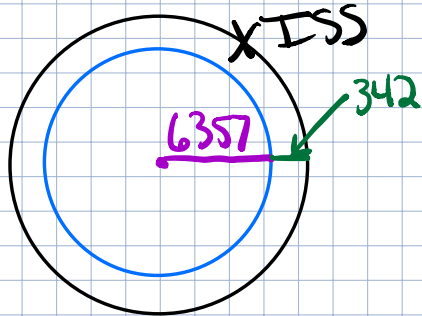


$$C = 2\pi r$$

$$C = 2(3.14)(1250)$$

$$C \approx 7850 \text{ ft}$$

ISS is orbiting 342 km above the Earth. The Earth has a radius of 6357 km. What is the distance the ISS travels in one orbit?



$$C = 2\pi r$$

$$C = 2(3.14)(6699)$$

$$C \approx 42,069.72 \text{ km}$$