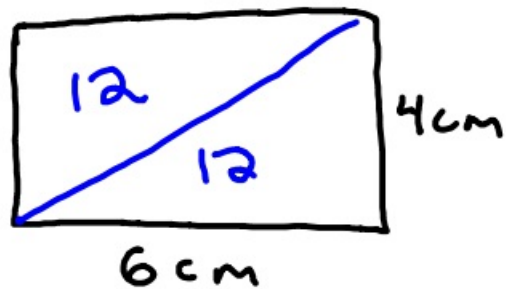
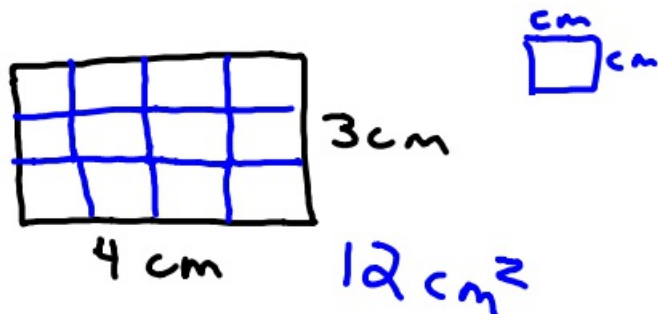
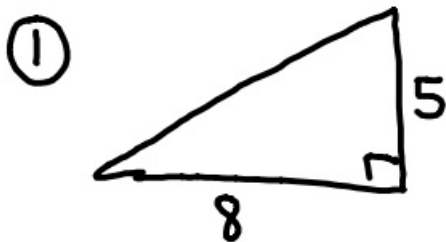


9-13-18 5th Geo

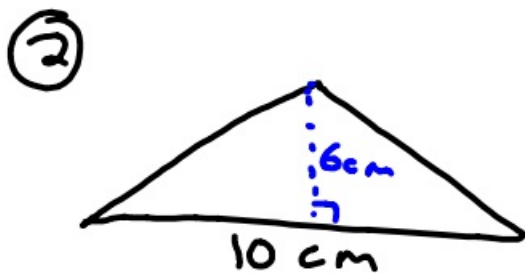
Discussion on AREA



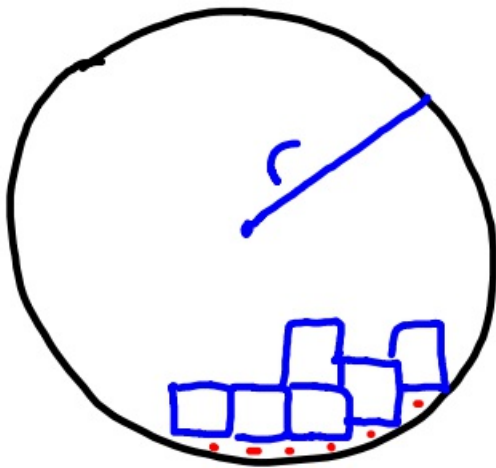
Triangle's
Area
= $\frac{1}{2}bh$



$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2} \cdot 8 \cdot 5 \\ &= 20 \text{ units}^2 \end{aligned}$$



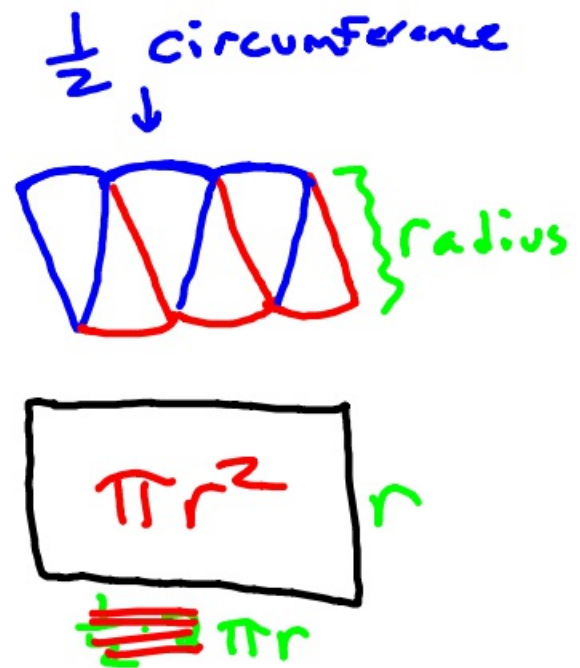
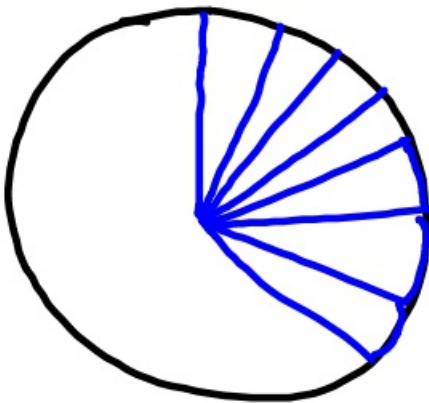
$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2} \cdot 10 \cdot 6 \\ &= 30 \text{ cm}^2 \end{aligned}$$



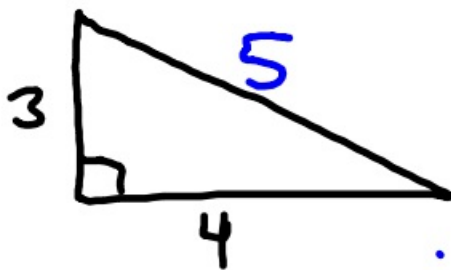
$$\text{Area} = \pi r^2$$

$$\text{Circumference} = \pi d$$

$$(2\pi r)$$



③ Give perimeter-



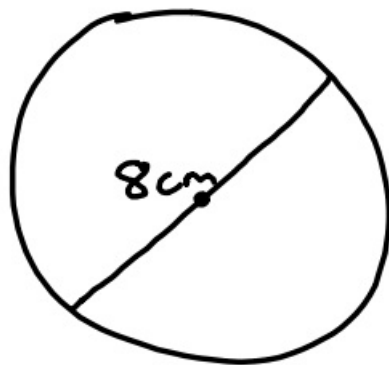
$$3^2 + 4^2 = c^2$$

$$c = 5$$

$$\therefore p = 3 + 4 + 5$$

$$= 12$$

④

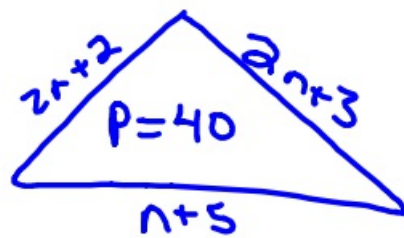


$$\begin{aligned} \text{Area} &= \pi r^2 \\ \pi \cdot 4^2 &= 16\pi \\ &\approx 50.3 \text{ cm}^2 \end{aligned}$$

Circumference

$$\begin{aligned} &\pi \cdot d \\ &\pi \cdot 8 \\ &\approx 25.1 \text{ cm} \end{aligned}$$

⑤ If the perimeter of a triangle is 40 with side lengths of $2n+3$, $n+5$, and $2n+2$, what is n ?



$$2n+3 + n+5 + 2n+2 = 40$$

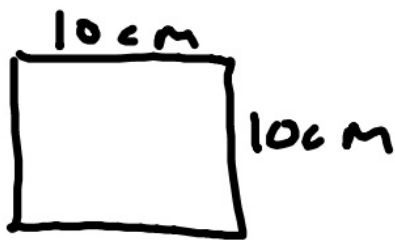
$$5n+10 = 40$$

$$\begin{array}{r} 5n+10 = 40 \\ -10 \quad -10 \\ \hline 5n = 30 \end{array}$$

$$n = 6$$

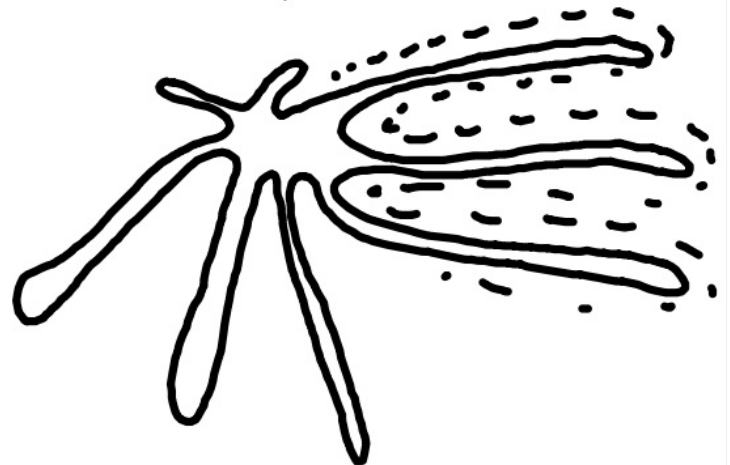
⑥ Give a picture where the perimeter is more than the area (numerical) and vice-versa.

Area > Perimeter



$$A = 100$$
$$P = 40$$

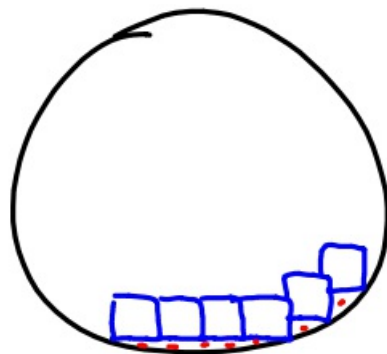
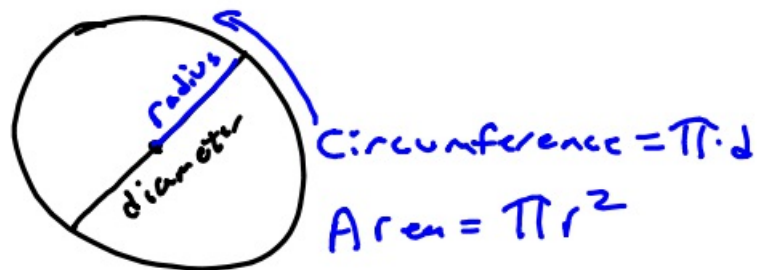
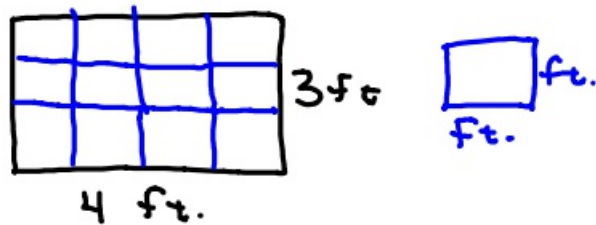
Perimeter > Area

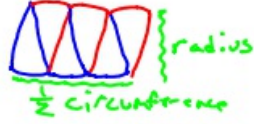
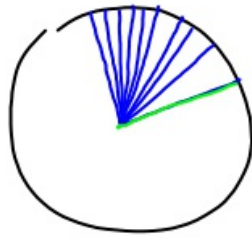


$$A = 10$$
$$P = 14$$

9-13-18 6th Geo

Where do we use AREA
in the real world?

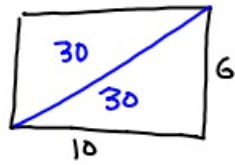




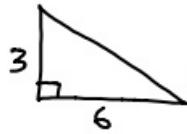
$$C = 2\pi r$$

$$\boxed{\pi r^2} \quad r$$

~~$\frac{1}{2} \cdot 2\pi r$~~



Triangle Area
= $\frac{1}{2}bh$

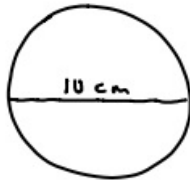


$$A = \frac{1}{2} \cdot b \cdot h$$

$$\frac{1}{2} \cdot 6 \cdot 3$$

$$9 \text{ cm}^2$$

①



Circumference

$$C = \pi \cdot d$$

$$= \pi \cdot 10$$

$$\approx 31.4 \text{ cm}$$

Area

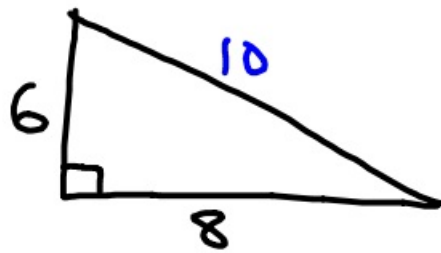
$$\pi \cdot r^2$$

$$\pi \cdot 5^2$$

$$25\pi$$

$$\approx 78.5 \text{ cm}^2$$

② What is the perimeter of



$$6^2 + 8^2 = c^2$$

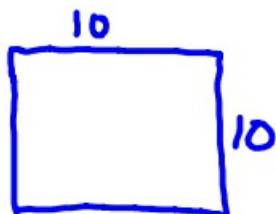
$$c = 10$$

$$P = 6 + 8 + 10 = 24 \text{ cm}$$

③ Draw a picture where Area's number value is greater than perimeter's.

No do it vice-versa.

$$A > P$$

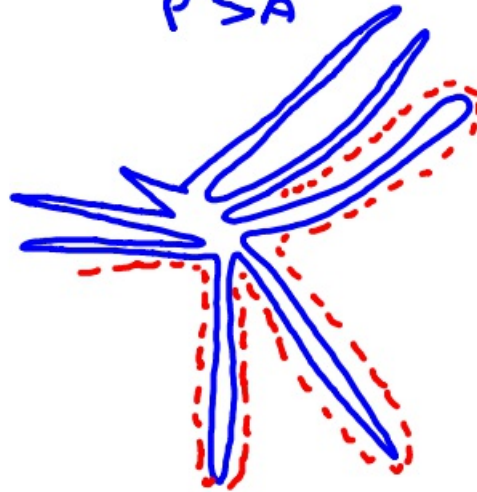


$$\text{Area} = 100$$

$$P = 40$$

$$A > P$$

$$P > A$$



$$5$$



$$A = 10$$

$$P = 14$$