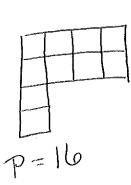
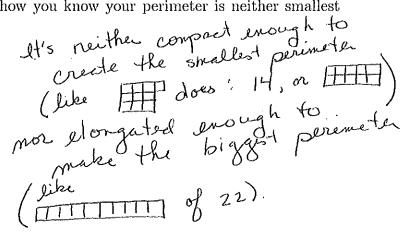


1. Draw a decomino ("dec" means 10) that has a perimeter somewhere between the smallest and largest possible, explaining how you know your perimeter is neither smallest nor largest.





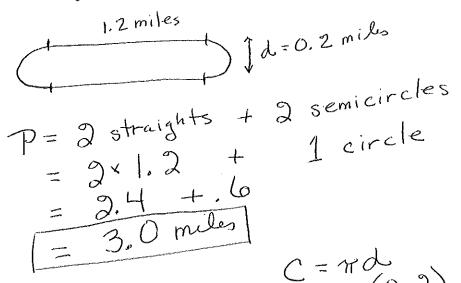
2. A circle's circumference is 980.7 ft. Find its radius to the nearest tenth; show work.

$$C = 2\pi\Gamma$$

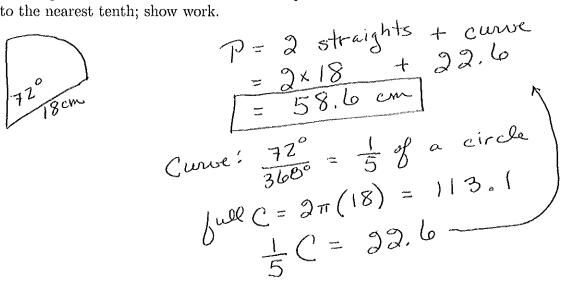
$$\frac{980.7}{2\pi} = \frac{2\pi\Gamma}{2\pi}$$

$$(980.7 \div 2, \div \pi)$$

3. The track used by the race car drivers at Peak Park has two straightaways that are 1.2 miles long each while the semicircular curves on either end have a diameter of 0.2 miles. What is the length of one lap of the track, to the nearest tenth of a mile? Show work.



4. Find the total perimeter of a circular sector that opens 72° and has a radius of 18 cm. Round to the nearest tenth; show work.



5. If the radius of a circle decreases by subtracting 100, what is the amount and nature of the change in circumference? Answer in a sentence, and justify your claim by showing

Various comperisons are possible. Here are mine:

Vanious compared
$$C = 2\pi (200) = 1256.64$$

 $C = 2\pi (100) = 628.32$
 $C = 2\pi (100) = 628.32$
 $C = 1256.64$
 $C = 1256.64$
 $C = 628.32$ (smaller)
 $C = 628.32$ (smaller)

The circumference gets smaller by subtracting 628.32 each time.