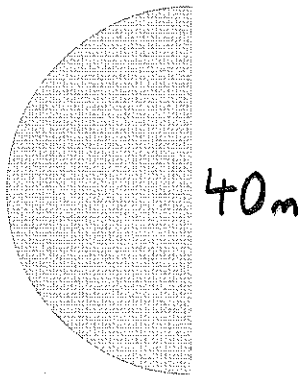
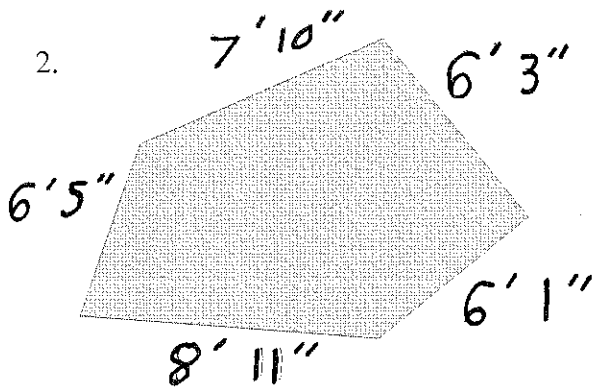


1.



$$\begin{aligned}
 C &= \pi d \\
 &= \pi 40 \\
 &= 125.66m
 \end{aligned}$$

2.

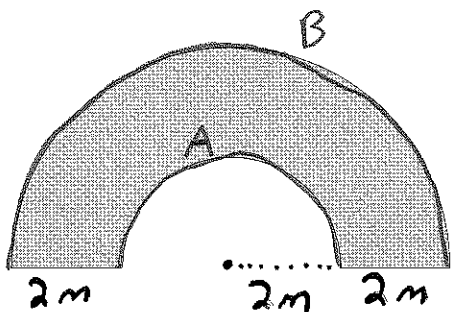


$$\begin{array}{r}
 7' \ 10'' \\
 6' \ 3'' \\
 6' \ 1'' \\
 8' \ 11'' \\
 6' \ 5'' \\
 \hline
 33' \ 30''
 \end{array}$$

$$30'' = 2' 6''$$

$$35' 6''$$

3.



$$\begin{aligned}
 A \quad C &= 2\pi r \\
 &= 2\pi 2 \\
 &= 12.57 \\
 &\div 2 \\
 \hline
 &6.28m
 \end{aligned}$$

$$\begin{aligned}
 B \quad C &= 2\pi r \\
 &= 2\pi 4 \\
 &= 25.13 \\
 &\div 2 \\
 \hline
 &12.57m
 \end{aligned}$$

$$6.28 + 12.57 + 2 + 2 = 22.85m$$

4. The data sheet gives two formulas for the circumference of a circle: $C = \pi d$ or $C = 2\pi r$

a) What do the "d" and the "r" in the formulas stand for?

$d = \text{diameter}$

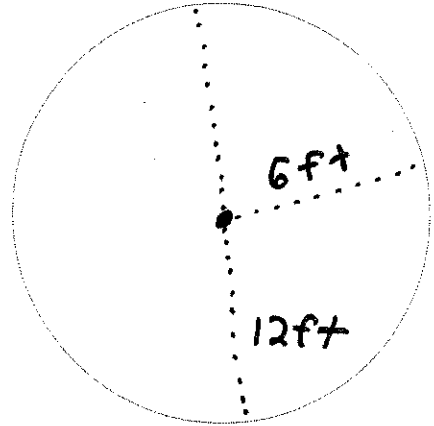
$r = \text{radius}$

b) Calculate the circumference of the following circle using the formula $C = \pi d$ show all work.

$$C = \pi \times 12$$

$$C = 37.69911$$

$$= \underline{37.70}$$



c) Calculate the circumference of the circle from b) using the formula $C = 2\pi r$ show all work.

$$C = 2 \times \pi \times 6$$

$$= 37.69911$$

$$= \underline{37.70}$$

5. The perimeter of a rectangle is given by the formula $P = 2l + 2w$

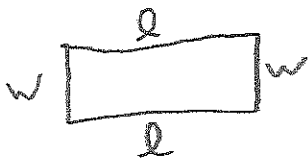
a) What do the "l" and "w" stand for in this formula?

$l = \text{length}$

$w = \text{width}$

b) Why does this formula always give the same answer you would get from adding up the four sides of a rectangle?

there are two length sides
and two width sides



when you add them up it
looks like $l + l + w + w$
which is the same thing
as $2 \times l + 2 \times w$