m3 = only 1 day to go!

28	Αg	A girl runs 8 laps of a track in an average time of 48.2 seconds per lap.	
	Aft	ter completing another 2 laps her overall average time is 49.4 seconds per lap.	
	Cal	lculate her average time per lap for the last 2 laps.	
		Answer seconds per lap [3]	
18	(a)	A circular garden has a radius of 7 metres.	
		Calculate the area of the garden.	
		Answer [3]	
	(b)	The perimeter of a different garden is 64 metres, measured to the nearest metre.	
		Write down the greatest value and least value of the perimeter.	
		Answer greatest m	

22 Solve the equation

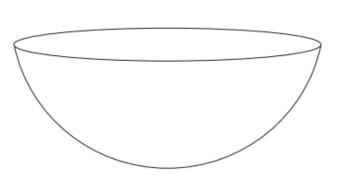
$$\frac{3(x-2)}{4} - 3 = \frac{x+4}{3}$$

Show all your working clearly.

A solution by trial and improvement will not be accepted.

Answer
$$x =$$
 [4]

9



_____ 26 cm _____

The diagram above shows a solid hemisphere which has a diameter of 26 cm.

Find the total surface area of the solid hemisphere.

Give your answer in terms of π .