## 103 = onls 1 dery to go!

28 A girl runs 8 laps of a track in an average time of 48.2 seconds per lap.
After completing another 2 laps her overall average time is 49.4 seconds per lap.
Calculate her average time per lap for the last 2 laps.

Answer $\qquad$ seconds per lap [3]

18 (a) A circular garden has a radius of 7 metres.
Calculate the area of the garden.

Answer $\qquad$
(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.
$\qquad$ m
$\qquad$

22 Solve the equation $\quad \frac{3(x-2)}{4}-3=\frac{x+4}{3}$
Show all your working clearly.
A solution by trial and improvement will not be accepted.

Answer $x=$ $\qquad$ [4]

## 9



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 $\pi$.
$\qquad$

