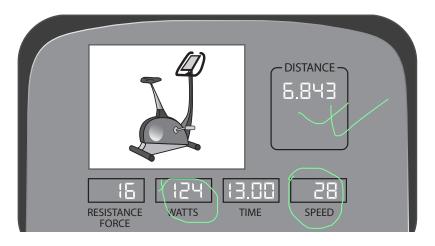
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(1)

(3)

14 A stationary exercise bicycle has the display shown.



The equivalent motion of the bicycle is displayed as a speed and a distance travelled.

(a) One of the quantities being displayed is expressed as 'watts'.

State the name of this quantity.

(b) The bicycle provides a resistance force against the cyclist. The unit of this resistance force is newtons. The unit of speed is km hours -1.

Show that the values displayed for the resistance force and the speed are consistent with the value displayed as watts.

Power =
$$124 \text{ W}$$

Speed = $\frac{28}{3}$ \leq

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kilometres. Deduce whether the speed given on the display is instantaneous or an average.		
	(Total for Questi	on $14 = 8$ marks)
	, -	
	,	