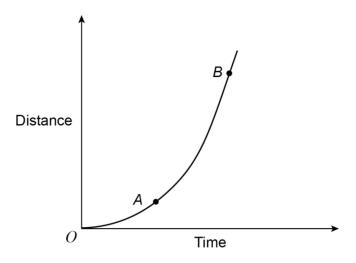
1 Here is a sketch of a distance-time graph.

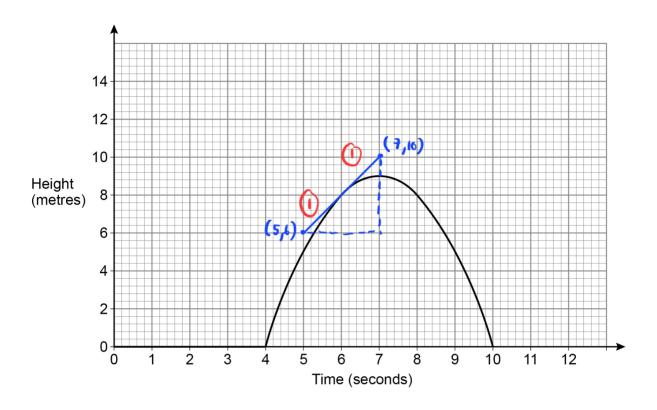


Which of these represents the average speed between *A* and *B*? Tick **one** box.

[1 mark]

	The gradient of the tangent at A
	The gradient of the tangent at <i>B</i>
<b>✓</b>	The gradient of the chord from A to B
	The gradient of the chord from $O$ to ${\it B}$

2 The graph shows the height above ground of a toy rocket for 10 seconds.



9 seconds

**2 (a)** For how long is the rocket in the air? Circle your answer.

10 seconds

6 seconds 4 seconds

2 (b) Using the graph, estimate the speed of the rocket after 6 seconds.

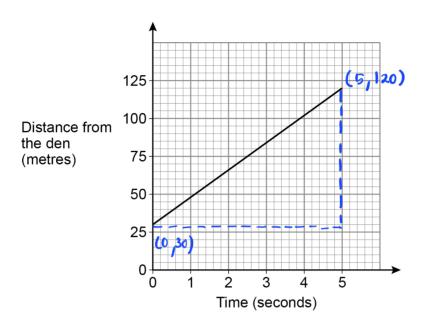
State the units of your answer.

Speed:	distance
7700	At mo P

$$=\frac{10-6}{2}=\frac{4}{2}=2\text{m/s}$$

**3** A lion is sprinting in a straight line away from its den.

The graph shows the lion's distance from the den.



Work out the speed of the lion in metres per second.

[3 marks]

$$=\frac{120-30}{5}$$

Answer 18 m/s