

Q1. (2017)

- 22** A ball, dropped vertically, falls d metres in t seconds.
 d is directly proportional to the square of t .
The ball drops 45 metres in the first 3 seconds.
How far does the ball drop in the **next** 7 seconds?

[4 marks]

Q2. (2021)

- 15** L is directly proportional to D^2
 $L = 85$ when $D = 10$

(A)

- 15 (a)** Work out an equation connecting L and D .

[3 marks]

(B)

- 15 (b)** Work out the value of L when $D = 5$

[2 marks]