1

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[8]

Mark schemes

Q1.

(a) a satellite

(b) arrow drawn towards the centre of the Earth from the Hubble Space Telescope

(c) any correct change in distance with the correct change in time e.g. 38 (km) and 5 (s)

a correct substitution of a correct pair of values

e.g.
$$v = \frac{38}{5}$$

a correctly calculated answer

e.g.
$$v = 7.6 (km/s)$$

(d) galaxy **C**

(e) galaxy **C**

(f) to check the observations are correct