

Subtopic: Distance, displacement, speed and velocity

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Q1.(2022)

a)

distance = 1500 (m)

$$1500 = 20 \times t$$

$$t = \frac{1500}{20}$$

75 (s)

b)

velocity is a vector and speed is
a scalar

road is not straight

therefore direction changes so
the velocity changes

Q2.(2023)

a)

7.1 (cm)

497 (m)

b)

0 (N)

c)

constant velocity

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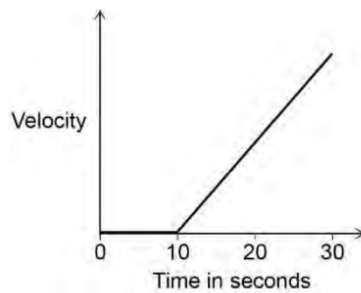
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d)

any **one** from:

- tension
- normal contact (force)
- upthrust

e)



f)

line of best fit drawn and
extrapolated to 10 km

28 (kPa)

g)

the average density of the air
above the aeroplane decreases