

## 2. Kinematics of a particle moving in a straight line. M1 edexcel Solutions for students' self assessment

$$a = \frac{v-u}{t}$$

→ speed or velocity

→ acceleration

$$v = u + at$$

$$1 \text{ hr} = 3600 \text{ s. } (60 \text{ min} \times 60 \text{ sec})$$

$$s = \left( \frac{u+v}{2} \right) t$$

### Exercise 2A. (Pages 9-10)

1.-



$$a = \frac{v-u}{t}$$

$$3 = \frac{v-2}{6}$$

$$3 \times 6 = v-2$$

$$18 = v-2$$

$$18+2 = v = \underline{\underline{20 \text{ m/s}}}$$

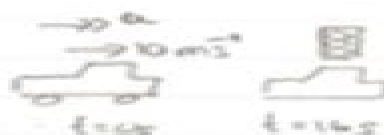
2.-



$$a = \frac{v-u}{t}$$

$$a = \frac{7.6-1.2}{4-0} = \frac{6.4}{4} = \underline{\underline{1.6 \text{ m/s}^2}}$$

3.-

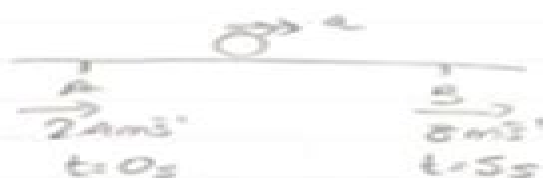


$$a = \frac{0-10}{16}$$

$$a = -\frac{10}{16} = \underline{\underline{0.63 \text{ m/s}^2}}$$

$$v = 0 \text{ m/s}$$

4.-



$$a = \frac{8-2}{5-0} = \frac{5.6}{5} = \underline{\underline{1.12 \text{ m/s}^2}}$$

$$s = \left( \frac{v+u}{2} \right) \times t \quad s = \left( \frac{8+2}{2} \right) \times 5$$

$$s = \frac{10 \times 5}{2} = \underline{\underline{26 \text{ m}}}$$

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**Richard Parsons**



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