

$$11. \quad u = 1.5 \text{ m/s} \quad v = 3 \text{ m/s} \quad S = 100 \text{ m} \quad a = 0.03375$$

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

$$v = \frac{S}{t}$$

$$100 = \frac{4.5t}{2}$$

$$v^2 = u^2 + 2as$$

$$9 = 2.25 + 200 \cdot a$$

$$S = vt$$

$$200 = 4.5t$$

$$a = 0.03375 \text{ m/s}^2$$

$$S = 4 \times 100 \\ = 400$$

$$t =$$

$$v = u + at$$

$$3 = 1.5 + 0.03375 t$$

$$1.5$$

1600

3000

4200

9000