

## Solutions

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Each answer shows the steps, then the **result**.

### 2.1

- The velocity

### 2.2

- The displacement

### 2.3

- Displacement = area =  $6 \times 5 = 30$  m

### 2.4

- $a = \frac{\Delta v}{\Delta t} = \frac{8}{2} = 4 \text{ m s}^{-2}$

### 3.1 B

- acceleration is the slope of the velocity-time graph

### 3.2 B

- constant acceleration gives a straight sloped  $v$ - $t$  line

### 3.3

(a)

- $a = 12/6 = 2 \text{ m s}^{-2}$

(b)

- area =  $\frac{1}{2}(6)(12) = 36$  m

### 3.4

(a)

- $v = 0$  (the position is constant)

(b)

- $a = 0$