

Worksheet 2.1.1 - Distances and Timeless Equations (continued)
 (Show all steps - include units and answers with the correct number of significant figures)

1. An object is thrown upwards with an initial velocity of 10 m/s. Calculate the time it takes to reach a height of 5 m.

a. Sketch the situation on a diagram.

$u = 10 \text{ m/s}$
 $s = 5 \text{ m}$
 $a = -9.8 \text{ m/s}^2$
 $t = ?$
 $v = ?$
 $v^2 = u^2 + 2as$
 $v^2 = 10^2 + 2(-9.8)(5)$
 $v^2 = 100 - 98$
 $v^2 = 2$
 $v = \sqrt{2} \text{ m/s}$
 $t = 0.45 \text{ s}$

b. Calculate the time it takes to reach a height of 5 m.

$s = ut + \frac{1}{2}at^2$
 $5 = 10t + \frac{1}{2}(-9.8)t^2$
 $5 = 10t - 4.9t^2$
 $4.9t^2 - 10t + 5 = 0$
 $t = 1.02 \text{ s}$

2. A car starts from rest and accelerates uniformly. It reaches a speed of 20 m/s after 5 s. Calculate the distance it travels.

a. Sketch the situation on a diagram.

$u = 0 \text{ m/s}$
 $v = 20 \text{ m/s}$
 $t = 5 \text{ s}$
 $a = ?$
 $s = ?$
 $v = u + at$
 $20 = 0 + a(5)$
 $a = 4 \text{ m/s}^2$
 $s = ut + \frac{1}{2}at^2$
 $s = 0(5) + \frac{1}{2}(4)(5)^2$
 $s = 50 \text{ m}$

b. Calculate the distance it travels.

$s = \frac{v^2 - u^2}{2a}$
 $s = \frac{20^2 - 0^2}{2(4)}$
 $s = 50 \text{ m}$

3. A car starts from rest and accelerates uniformly. It reaches a speed of 20 m/s after 5 s. Calculate the distance it travels.

a. Sketch the situation on a diagram.

$u = 0 \text{ m/s}$
 $v = 20 \text{ m/s}$
 $t = 5 \text{ s}$
 $a = ?$
 $s = ?$
 $v = u + at$
 $20 = 0 + a(5)$
 $a = 4 \text{ m/s}^2$
 $s = ut + \frac{1}{2}at^2$
 $s = 0(5) + \frac{1}{2}(4)(5)^2$
 $s = 50 \text{ m}$

b. Calculate the distance it travels.

$s = \frac{v^2 - u^2}{2a}$
 $s = \frac{20^2 - 0^2}{2(4)}$
 $s = 50 \text{ m}$

4. A car starts from rest and accelerates uniformly. It reaches a speed of 20 m/s after 5 s. Calculate the distance it travels.

$u = 0 \text{ m/s}$
 $v = 20 \text{ m/s}$
 $t = 5 \text{ s}$
 $a = ?$
 $s = ?$

Find the distance.

$s = \frac{v^2 - u^2}{2a}$
 $s = \frac{20^2 - 0^2}{2(4)}$
 $s = 50 \text{ m}$

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