

End of Level 3 Revision Non Calculator Answers

1. (a) 6, 8, 10, 13 litres  
(b) 37 litres, 8 cans
2. (a) Yes since 22 cartons is 49.984 litres < 50 litres  
(b) 16ml
3. 59.35 seconds
4. (a) (i) 53p per tin (ii) 48p per tin, 5 tins are best value  
(b) (i) 63p per litre (ii) 59p per litre, 6 litres are best value  
(c) (i) £1.76 per kg (ii) £1.68 per kg, 10kg best value
5. (a) 8.9 (b) 9.3 (c) 3.7 (d) 4.9 (e) 5.18 (f) 11.99  
(g) 5.78 (h) 113.61 (i) 29.94 (j) 125.707 (k) 2.112
6. (a) 0.6 (b) 4.2 (c) 3.9 (d) 7.4 (e) 27.2 (f) 15.7  
(g) 3.3 (h) 161.1 (i) 12.1 (j) 1642.9 (k) 22.8 (l) 3832.2
7. (a) 374.1 (b) 69.8 (c) 1.04 (d) 30 (e) 4.23 (f) 34.72
8.  $a = 115^\circ$      $b = 60^\circ$      $c = 145^\circ$      $d = 90^\circ$      $e = 100^\circ$      $f = 75^\circ$      $g = 112^\circ$   
 $h = 142^\circ$      $i = 142^\circ$      $j = 85^\circ$      $k = 95^\circ$      $l = 85^\circ$      $m = 32^\circ$      $n = 32^\circ$   
 $p = 148^\circ$      $q = 40^\circ$      $r = 108^\circ$      $s = 109^\circ$      $t = 71^\circ$      $u = 43^\circ$      $v = 137^\circ$   
 $w = 137^\circ$
9. (a) 8 (b) 15 (c) -22 (d) 22 (e) 9 (f) 10
10. (a) £28 (b) £13.49 (c) 26kg (d) 154m (e) £495 (f) 7.8km
11. (a)  $x = 4$  (b)  $t = 3$  (c)  $x = 6$  (d)  $x = 9/2$  (e)  $x \leq -3$  (f)  $g \geq 2$
12.  $121\text{m}^2$
13. (a)  $69\text{cm}^2$  (b)  $147\text{m}^2$  (c)  $103.5\text{cm}^2$
14. £454.76
15. (a) 12km (b) 11cm
16.  $135^\circ$
17. (a) 13 (b) -60 (c) 23 (d) 7 (e) -36
18. 180