1. £101

2. *(a)* X   *(b)* X, because graph shows two rates of descent

3. *(a)* 0·75 m   *(b)* 7·2 m³

4. *(a)* 9×17 *(b)* $n(2n-1)$

5. $y = 2x + 1$

6. 5 cm

7. *(a)* 2·48 m   *(b)* 26·72 m

8. 4·7 m

9. *(a)* £68   *(b)* $C = 4p + 6(d-2)$

10. 409·7 m

11. *(a)* $a = 1\cdot5;\, b = -2\cdot5$ *(b)* $k = dt + m$ *(c)* $x = 0$ and $x = 7$

12. 16·6 m

13. *(a)* $T \alpha \dfrac{S}{E}$ or $T = k\dfrac{S}{E}$ *(b)* 18 minutes

14. *(a)* $(15 \times 3) - (1 \times 17) = 28$ {other answers possible}
    (b) Prove that $(n+14)(n+2) - n(n+16) = 28$ where n is top left hand number in square

15. $x = 73\cdot4$ and $286\cdot6$

16. $v = 13$

17. *(a)* $(2a + 3b)(2a - 3b)$ *(b)* $\dfrac{1}{6}x$

18. *(a)* 19·2 m   *(b)* 19 m

19. *(a)* $2\sqrt{3} - 2$ *(b)* b