

- (b) y = 4x 12**1.** a) y = -3x - 1
- **2.** a) p < 6(b) m < 5 e) w > -8 (f) w > -4 (g) d > $-\frac{4}{2}$
- **3.** a) a = 3, b = 6 (b) x = 4, y = 2 (c) c = 10, d = 7d) x = 2, y = 3 (e) x = 17, y = 19
- **4.** a) (i) (ii) Adult =
- Adult = $\pounds 8.50$. Child = $\pounds 4.25$ b) 1 Cappuccino = $\pounds 2.35$, 1 Latte = $\pounds 2.35$ for 2 cappuccinos and 1 latte = $\pounds 7.35$

(d) x > -8

- 5. a) $m = \frac{3s 18}{2}$
 - d) $m = \frac{3P^2}{5}$ (e) $m = \frac{4R+6}{5}$ (f) $m = \sqrt{\frac{7Q-28}{3}}$
- **6.** (a) (i) $m = -\frac{1}{2}$, c = 27.5 (ii) $S = -\frac{1}{2}h + 27.5$ (iii) 15 (b) (i) m = -5, c = 27.5 (ii) T = -5H + 27.5(iii) 15cm
 - (c) (i) $m = \frac{10}{3}, c = 0$ (ii) $P = \frac{10}{2}W$ (iii) 90
- **7.** a) (i) $\bar{x} = 33$ s = 9.06

(ii) The average test score for the first class was slightly less than the second class, and their results varied more.

- b) (i) $\bar{x} = 148$ (ii) On average, the weight of the cakes in both production lines was the s = 3.07same, however, the weights were less consistent on the second line.
- c) (i) $\bar{x} = 15$ (ii) On average, a meal is more expensive in the up-market restaurants s = 2.76although their prices varied less.



(d) 2y + x - 6 = 0

(f)
$$w = -4, z = -3$$

(c) 2y - x - 9 = 0

(c) k < 4

(b)
$$m = \frac{5A+10}{4}$$
 (c) $m = \frac{4k-5}{5}$

(c) m =
$$\frac{4k-28}{5}$$

$$4k-2k$$

(c)
$$m = \frac{4k-28}{5}$$