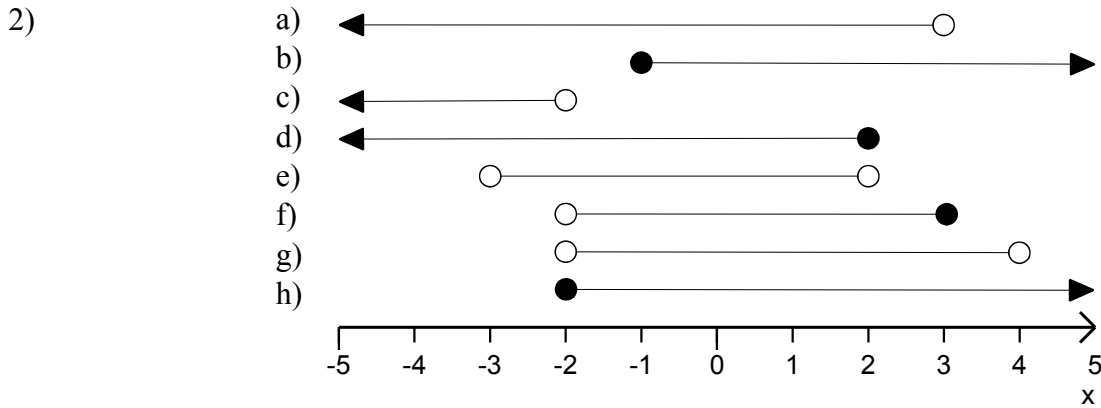


## Inequalities – Answers

### Inequalities

- 1) (a) {6, 7, 8}                      (b) {1, 2, 3, 4}                      (c) {}                      (d) {2, 3, 4, 5, 6, 7, 8}  
 (e) {4, 5, 6}                      (f) {3, 4, 5, 6, 7}                      (g) {2, 3, 4}                      (h) {7}



- 3) (a) {-4, -3, -2, -1, 0, 1, 2}                      (b) {-1, 0, 1, 2, 3, 4}                      (c) {-4, -3}  
 (d) {-4, -3, -2, 1, 0, 1, 2}                      (e) {-2, 1, 0, 1, 1}                      (f) {-1, 0, 1, 2, 3}  
 (g) {-1, 0, 1, 2, 3}                      (h) {-2, -1, 0, 1, 2, 3, 4}

- 4) (a)  $2 < x < 7$                       (b)  $3 < x < 10$                       (c)  $4 < x < 8$

- 5) (a)  $x > 2$                       (b)  $x \leq -3$                       (c)  $x > 3$                       (d)  $x \geq 2.4$   
 (e)  $x < -1.5$                       (f)  $x < 3$                       (g)  $x < -1.75$                       (h)  $x > -1$   
 (i)  $x < -3\frac{2}{3}$                       (j)  $x \leq -2.6$

- 6) (a) {3, 4}                      (b) {-4, -3}                      (c) {4}                      (d) {3, 4}  
 (e) {-4, -3, 2}                      (f) {4, -3, -2, 1, 0, 1, 2}                      (g) {-4, -3, -2}                      (h) {0, 1, 2, 3, 4}  
 (i) {-4}                      (j) {-4, -3}

- 7) (a)  $-5 \leq x \leq 5$                       (b)  $x < -4$  or  $x > 4$                       (c)  $-2 < x < 2$                       (d)  $x \leq -1$  or  $x \geq 1$