

Solving Inequalities

Workout

Question 1:

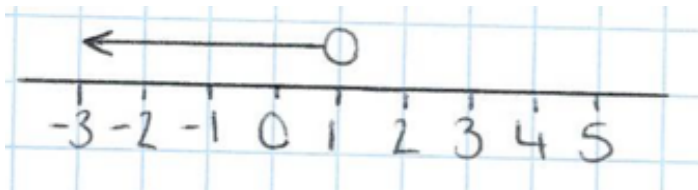
- (a) $x > 5$ (b) $x < 5$ (c) $x \leq 7$ (d) $x < 2$
(e) $x \geq 3$ (f) $x > 12$ (g) $x \leq 10$ (h) $x \geq -2$

Question 2:

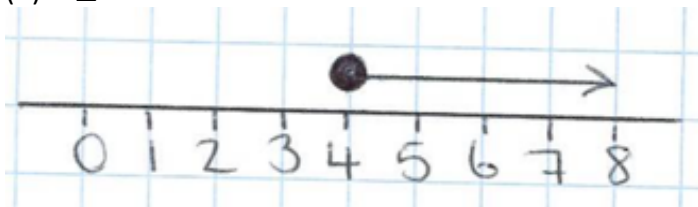
- (a) $x \leq 4$ (b) $x > 7$ (c) $x < 6$ (d) $x \geq 14$
(e) $x \leq 8$ (f) $x > 90$ (g) $x \geq 7$ (h) $x > 13$

Question 3:

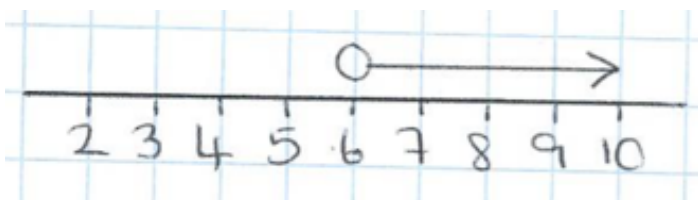
- (a) $x < 1$



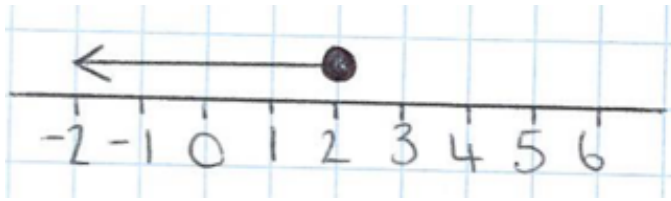
- (b) $x \geq 4$



- (c) $x > 6$



(d) $x \leq 2$



Question 4:

- (a) $x \geq 11$ (b) $x < 5$ (c) $x \leq 3.4$ (d) $x < 6.5$
(e) $x \geq 10$ (f) $x \leq -2$

Question 5:

- (a) $x > 4$ (b) $9.5 \geq x$ (c) $x < 2.5$ (d) $x \geq 4$

Question 6:

- (a) 5 (b) 3 (c) 3 (d) 4
(e) 20 (f) -2

Question 7:

- (a) 9 (b) 3 (c) 12 (d) 9
(e) 10 (f) 6

Question 8:

- (a) $3 < x < 7$ (b) $2 \leq x \leq 3.5$ (c) $\frac{1}{3} \leq x \leq 3$ (d) $20 < x < 30$
(e) $3 \leq x \leq 11$ (f) $-8 \leq x < 4$

Question 9:

- (a) 6, 7, 8 (b) -2, -1, 0, 1 (c) 2, 3, 4 (d) 3, 4, 5, 6
(e) 6, 7, 8, 9 (f) -31, -30, -29

Apply

- Question 1: (a) $23 + 3x \leq 50$ (b) $x \leq \text{£}9$

Question 2: (a) $6x + 10 > 300$

(b) $x > 48\frac{1}{3}$

Question 3: (a) $5(x+2) > 3(x+6)$

(b) $x > 4$

Question 4: $4.5 < x \leq 8$

Question 5: 7, 11, 13