

4.5 Solutions (4.4 Exercise)

Answer 1

(i) $x < 3$

(iii) $x < 5$

(v) $x \geq -0.5$

(vii) $x \leq -1$

(ix) $x < 4$

(xi) $x \geq -0.5$

(ii) $x \leq -7$

(iv) $x > -4$

(vi) $x > -0.4$

(viii) $x \leq -7$

(x) $x < -4$

(xii) $x < 1$

Answer 2

(i) $x < 3$

(iii) $x \geq 10$

(v) $x > 8$

(ii) $x > -3$

(iv) $x \geq 3$

(vi) $x < 6$

Answer 3

$x - 224 < 100$ or $x < 324$

Answer 4

Option (b) $A < B$

Answer 5

4, 5, 6, 7

Answer 6

-2, -1, 0, 1, 2, 3, 4, 5

Answer 7

1, 2, 3, 4

Answer 8

$12 < X \leq 19$

Answer 9

$5 \text{ cm} < x < 21 \text{ cm}$

Scope for discussion about use of $\leq$ or $<$

Answer 10

(i) $x < 6$

(iii) $x > 7$

(ii) $x < 8$

(iv) $x < -9$

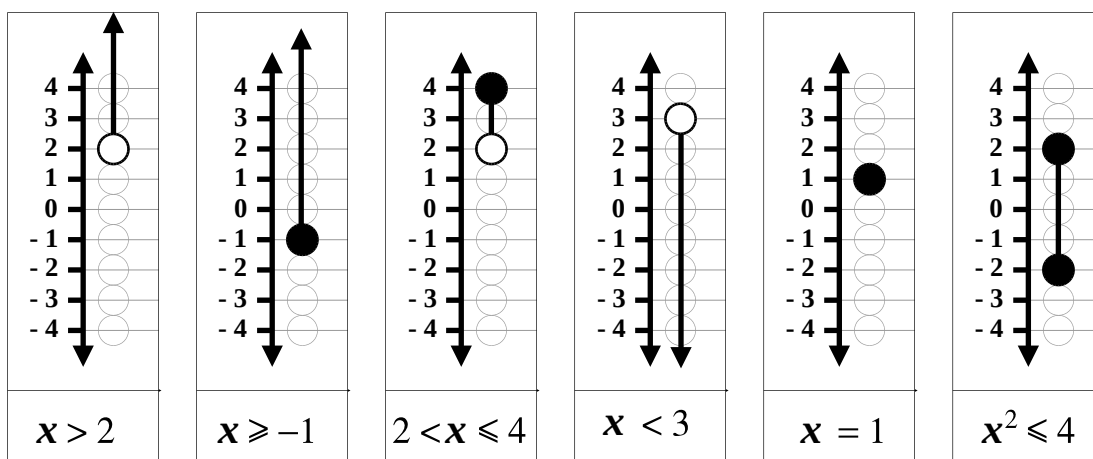
Answer 11

$16 \qquad 9 \qquad 1 \qquad 4$

$-3, -2, -1, 0, 1, 2, 3$

Answer 12

$-4 < x < 4$

Answer 13**Answer 14**

$122.5 \text{ cm} \leq x < 123.5 \text{ cm}$