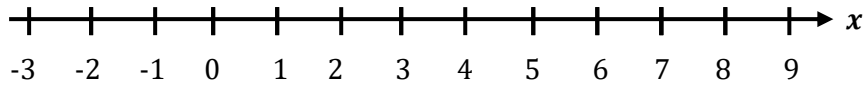


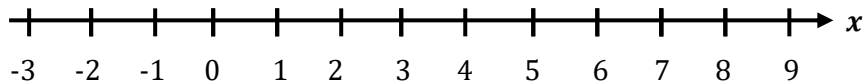
# Inequalities

1. Represent  $x < 4$  on the number line.



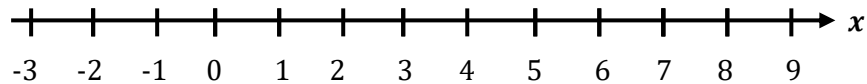
(1 mark)

2. Represent  $x \leq 7$  on the number line.



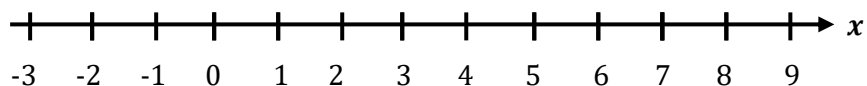
(1 mark)

3. Represent  $x > 0$  on the number line.



(1 mark)

4. Represent  $x \geq 1$  on the number line.



(1 mark)

## Inequalities

5. Match up the inequality with the correct sentence.

$x < 8$

$x$  is equal to 8

$x \geq 8$

$x$  is less than or equal to 8

$x = 8$

$x$  is greater than 8

$x \leq 8$

$x$  is greater than or equal to 8

$x > 8$

$x$  is less than 8

(5 marks)

6. Solve  $5x < 45$

(1 mark)

7. Solve  $x + 9 \geq 13$

(1 mark)

8. Solve  $\frac{x}{4} > 6$

(1 mark)

## Inequalities

9. Solve  $2x - 3 \leq 11$

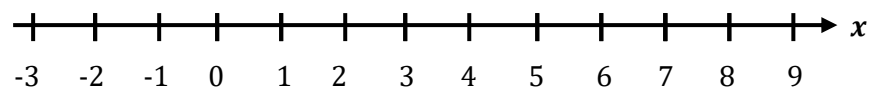
(2 marks)

10. Solve  $\frac{x}{7} - 4 > 5$

(2 marks)

11. a) Solve  $5x + 6 > 21$

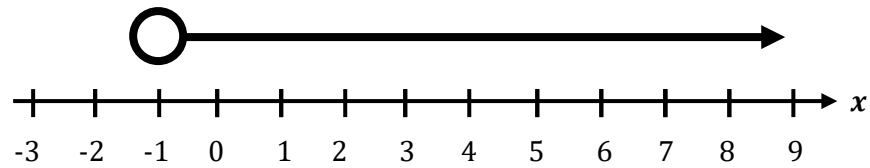
b) Represent your answer on the number line



(3 marks)

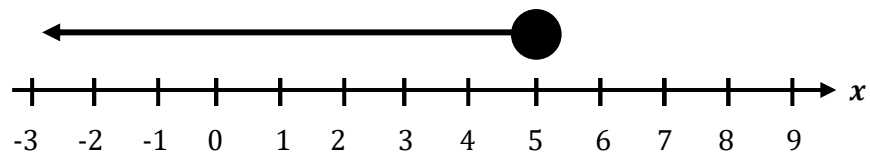
# Inequalities

12. Write down the inequality shown on the number line.



(1 mark)

13. Write down the inequality shown on the number line.



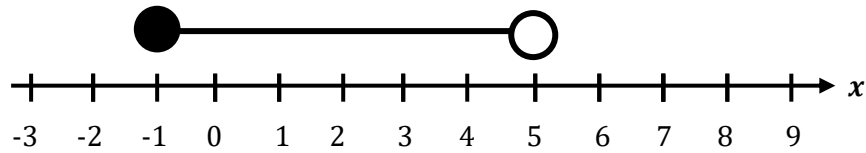
(1 mark)

14. Solve  $3(2x + 1) > 27$

(2 marks)

# Inequalities

15. What are all the integers that satisfies



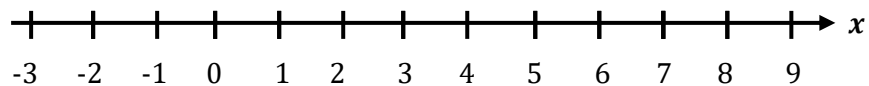
(2 marks)

16. What are all the integers that satisfies



(2 marks)

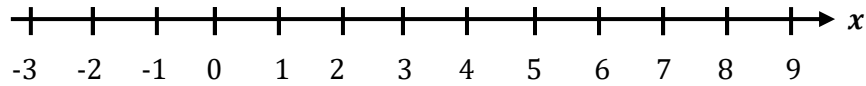
17. Represent  $3 \leq x \leq 8$  on the number line



(2 marks)

## Inequalities

18. Represent  $-2 < x \leq 8$  on the number line



(2 marks)

19. Solve  $4 \leq 2x - 2 < 10$

(2 marks)

20. Solve  $8 < 5x + 3 < 23$

(2 marks)

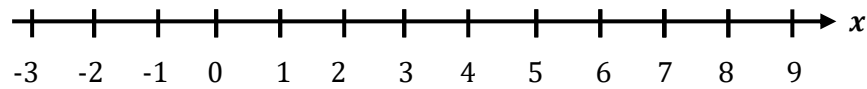
21. Solve  $3x + 4 \geq 5x - 12$

(2 marks)

## Inequalities

22. a) Solve  $8x + 4 < 5x + 16$

b) Represent your answer on the number line



(3 marks)

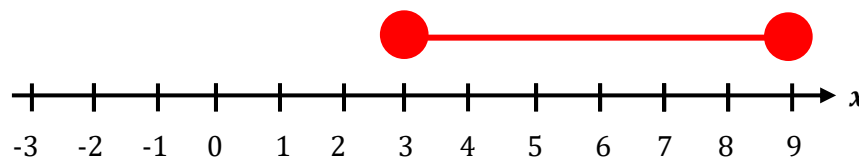
23. Jacob is doing his maths homework.  
Can you spot his mistakes and correct them?

Solve:  $3 < 2x - 3 \leq 9$

$$6 < 2x \leq 9$$

$$3 < x \leq 9$$

Represent your answer on the number line



(2 marks)