



Scan for the solutions

Name: _____ **Date:** _____ **Score:** _____ / 33

1 a. Write each statement as an inequality.

(i) x is greater than 5

(ii) n is at most 10

(iii) y is at least -2

b. Explain the difference between $x < 4$ and $x \leq 4$

(3 marks)

Answer _____

2 n is an integer.

$$-2 < n \leq 3$$

Write down all the possible values of n .

(2 marks)

Answer _____

3 The number line shows an inequality.

a. Write down the inequality shown, using x .

b. Write down the smallest integer that satisfies the inequality.



(2 marks)

Answer _____

- 4 On the number line, show the inequality $-1 < x \leq 3$



(2 marks)

Answer _____

- 5 The diagram shows an inequality on a number line.
Write down the inequality shown, using x .



(2 marks)

Answer _____

- 6 Solve $4x + 3 < 19$

(2 marks)

Answer _____

- 7 A taxi charges £4 plus £2 for every mile.

Leo has £15. He travels m miles.

- a. Write an inequality in m to show that Leo cannot spend more than £15.
b. Solve your inequality to find the greatest whole number of miles Leo can travel.

(3 marks)

Answer _____

8

a. Solve $3(x - 1) \geq 6$

b. Show your solution on the number line.



(3 marks)

Answer _____

9

Solve $5x - 2 > 3x + 10$

(3 marks)

Answer _____

10

a. Solve $-3 < 2x + 1 \leq 9$

b. Write down all the integer values of x that satisfy your answer to part a.

(4 marks)

Answer _____

11

a. Solve $5 \leq 3x - 4 < 14$

b. Show your answer to part a on the number line.



(3 marks)

Answer _____

12

Ayesha thinks of a whole number, n .

She doubles it and adds 3.

Her answer is greater than 10 and less than or equal to 21.

a. Write a two-sided inequality in n .

b. Work out all the possible values of n .

(4 marks)

Answer

End of questions | Total 33 marks