

7 Solve.

$$4x - 3 \geq 9$$

..... [2]

6 Solve the inequality.

$$7 \leq 11x$$

..... [1]

15 Solve.

$$12x - 3 \geq 4x + 13$$

..... [2]

7 Solve $2x + 3 < 5x - 12$.

..... [2]

8 Solve.

(b) $11x - 3 \geq 2(2x + 9)$

..... [3]

5 Solve.

$9 - 2x \leq 5(x + 6)$

..... [3]

6 Solve $2x + 6 > 5x - 10$.

..... [2]

4 (a) Solve the inequality.

$3m + 12 \leq 8m - 5$

..... [2]

11 Solve.

$$4(2x - 3) \geq 43 + 3x$$

..... [3]

13 Solve.

$$4 - 3x \geq \frac{6 - x}{5}$$

..... [3]

- 7 (a) Naga has n marbles.
Panav has three times as many marbles as Naga.
Naga loses 5 marbles and Panav buys 10 marbles.
Together they now have more than 105 marbles.

Write down and solve an inequality in n .

..... [3]

1 Write down the integer values of x that satisfy the inequality $-2 \leq x < 2$.

..... [2]

4 Find the integer values of x when $-1 \leq x < 3$.

..... [2]

(c) $-8 < 3x - 2 \leq 7$

(i) Solve the inequality.

..... [3]

(ii) Find the integer values of x that satisfy the inequality.

..... [1]

12 x is an integer and $-3 \leq 2x - 1 < 3$.

Find the values of x .

..... [2]

10 (a) Find all the positive integers which satisfy the inequality.

$$3n - 8 > 5n - 15$$

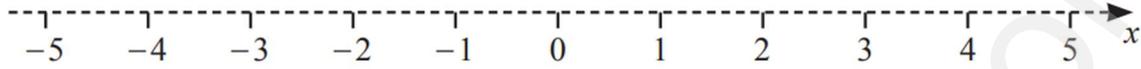
..... [2]

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3 (a) Solve $x+9 > 6$.

..... [1]

(b) Show your answer to **part (a)** on this number line.

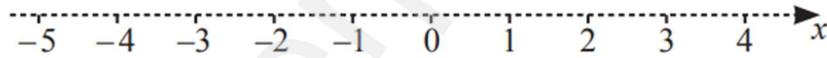


[1]

4 (a) Solve $11+2x \geq 5$.

..... [2]

(b) Show your solution to **part (a)** on this number line.



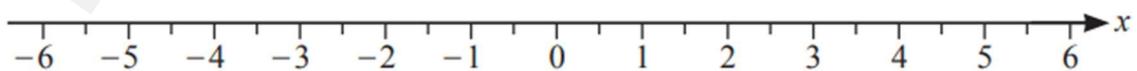
[1]

(b) (i) Solve.

$$x-3 \leq 5x+7$$

..... [2]

(ii) Show your answer to **part (b)(i)** on the number line.



[1]

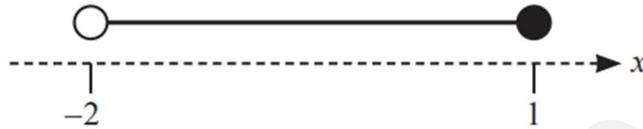
7



Write down the inequality, in terms of n , shown by the number line.

..... [1]

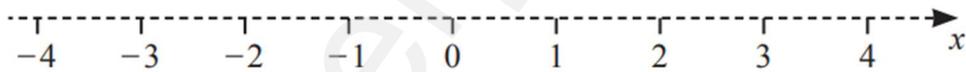
7 (a)



Write down the inequality in x shown by the number line.

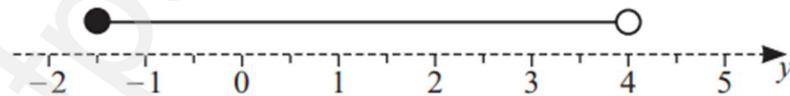
..... [2]

1 On the number line, show the inequality $-2 \leq x < 3$.



[2]

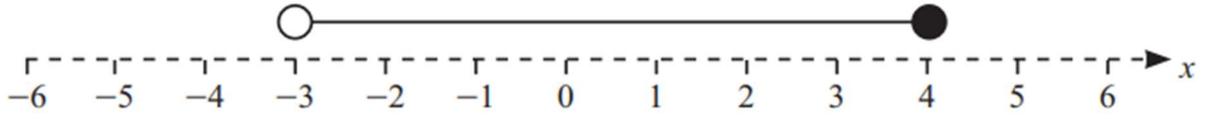
7



Write down the inequality in y shown by the number line.

..... [2]

7

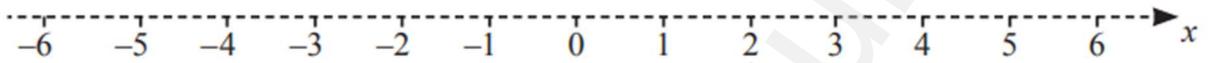


Write down the inequality for x represented on the number line.

..... [2]

3 Show this inequality on the number line.

$$-3 < x \leq 4$$



[2]

3 (a)



Write down the inequality shown by the number line.

..... [1]

(b) $-3 \leq 2x + 3 < 9$

(i) Solve the inequality.

..... [3]

(ii) Write down all the integer values of x that satisfy the inequality.

..... [2]