Topic Test 1 (20 minutes)

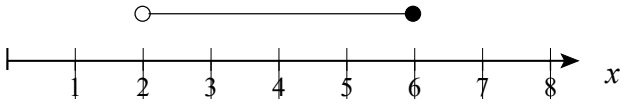
Inequalities (non-calculator) - Foundation

1 Circle the integer that satisfies $4 < 2n \leq 6$

[1 mark]

2 3 4 6

2 Which inequality is represented by this solution?



Circle your answer.

[1 mark]

$2 < x < 6$ $2 \leq x < 6$ $2 \leq x \leq 6$ $2 < x \leq 6$

3 Work out the largest integer that satisfies $2n \leq 9$

[1 mark]

Answer _____

4 Solve $4x - 3 > 17$

[2 marks]

Answer _____

5 Solve $5x + 8 \leq 9$

[2 marks]

Answer _____

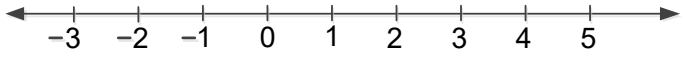
6 (a) Solve $-5 \leq 3x + 1 < 13$

[2 marks]

Answer _____

6 (b) Show the answer to part (a) on the number line.

[1 mark]



7 Solve $2x + 5 \leq 12 - x$

[2 marks]

Answer _____

8 Solve $5(x - 3) > 2x + 5$

[3 marks]

Answer _____

9 Mira writes down a whole number that satisfies $x \geq 3$
Ruba writes down a whole number that satisfies $x < 7$
They both write the same whole number.

Write down all the list of possible answers.

[2 marks]

Answer _____

10 Lee spent £12 making buns.

He sells each bun for £0.80

His target is to make a profit of more than £5

Set up and solve an inequality to work out the least number of buns he must sell to achieve his target.

[3 marks]

Answer _____