Linear Inequalities & Interval Notation (Grade 10)

WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 15

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Solve: $2x + 3 < 11$ **(2)**

2 Solve: $5x - 4 \geq 16$ **(2)**

3 Solve: $-2x > 10$ **(2)**

4 Solve: $-3x + 1 \leq 7$ **(2)**

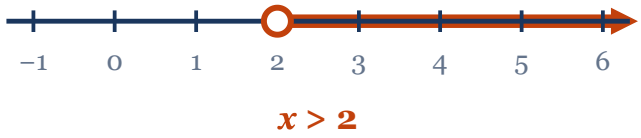
5 Write $x > 5$ in interval notation. **(1)**

6 Write $-2 \leq x \leq 7$ in interval notation. **(1)**

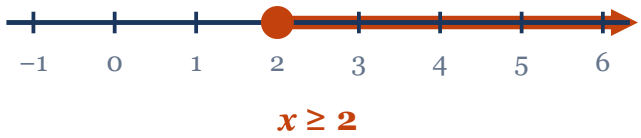
7 Write $(-\infty\ ;\ 3]$ as an inequality. **(1)**

8 Solve: $-4 < 2x - 2 \leq 6$ **(3)**

9 On a number line, what does an OPEN circle mean? **(1)**



$x > 2$



$x \geq 2$

TOTAL: 15 marks

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