

AQA, OCR, Edexcel

GCSE

GCSE Maths

Inequalities Answers

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Total Marks: /21

Inequalities

1. Let x be an integer such that $-2 \leq x < 1$.
 - a. List all possible values of x $x = -2, -1, 0$
 - b. Solve the inequality $17y \geq y + 48$ $y \geq 3$

(3 Marks)

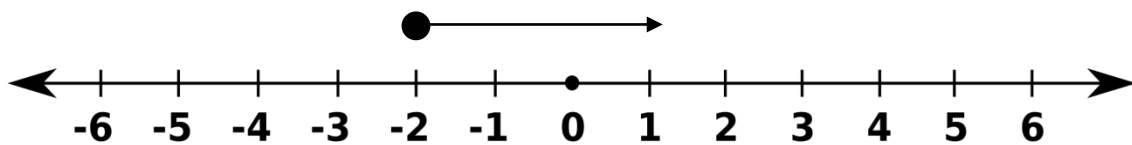
2. Let y be an integer such that $-1 \leq y < 2$
 - a. List the possible values for y $y = -1, 0, 1$
 - b. Solve the inequality: $7y - 5 < 10 + 2y$ $y < 3$

(3 Marks)

3. Let p be an integer such that $-4 < p \leq 3$
 - a. List all possible values for p . $p = -3, -2, -1, 0, 1, 2, 3$
 - b. Solve the inequality: $27p \leq 15p + 108$ $p \leq 9$

(3 Marks)

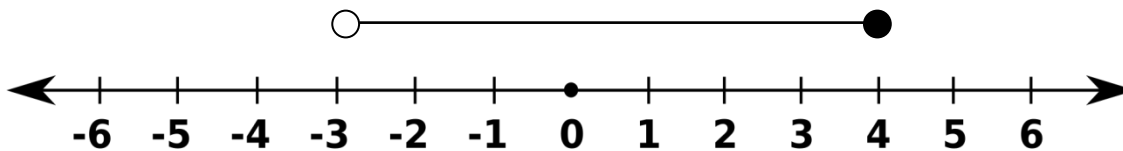
4. Draw the inequality $x \geq -2$ on the number line.



(2 Marks)

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5. Draw the inequality $-3 < x \leq 4$ on the number line below.



(2 Marks)

6. Solve the inequality: $16 - 4x \geq 9x - 49$ $x \leq 5$

(2 Marks)

7. Solve the following inequalities:

a. $\frac{4x-3}{2} > \frac{x+8}{4}$ $x > 2$

b. $\frac{4x-3}{2} > \frac{x+5}{4}$ $x > \frac{11}{7}$

c. $-1 < \frac{5x-5}{3} < 5$ $0.4 < x < 4$

(6 Marks)