

Linear Inequalities

Difficulty: Hard

Question Paper 1

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|------------|---------------------|
| Level | IGCSE |
| Subject | Maths (0580/0980) |
| Exam Board | CIE |
| Topic | Algebra & graphs |
| Sub-Topic | Linear Inequalities |
| Paper | Paper 2 |
| Difficulty | Hard |
| Booklet | Question Paper 1 |

Time allowed: 25 minutes

Score: /19

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

| A* | A | B | C | D | E |
|------|-----|-----|-----|-----|-----|
| >88% | 76% | 63% | 51% | 40% | 30% |

CIE IGCSE Maths (0980)

| 9 | 8 | 7 | 6 | 5 | 4 | 3 |
|------|-----|-----|-----|-----|-----|-----|
| >94% | 85% | 77% | 67% | 57% | 47% | 35% |

Question 1

Find the integers which satisfy the inequality.

$$-5 < 2n - 1 \leq 5 \quad [3]$$

Question 2

Solve $6x + 3 < x < 3x + 9$ for **integer** values of x . [4]

Question 3

(a) Solve $3n + 23 < n + 41$. [2]

(b) Factorise completely $ab + bc + ad + cd$. [2]

Question 4

List all the prime numbers which satisfy this inequality.

$$16 < 2x - 5 < 48$$
 [3]

Question 5

Solve the inequality

$$\frac{2x-5}{8} > \frac{x+4}{3} \quad [3]$$

Question 6

Solve the inequality

$$3 < 2x - 5 < 7 \quad [2]$$