

Solving inequalities

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1 Solve the following inequalities:

(Level 4)

1(a)

$$3x < 21$$

[1 mark]

Answer _____

1(b)

$$12 + x > 16$$

[1 mark]

Answer _____

1(c)

$$7x \leq 14$$

[1 mark]

Answer _____

1(d)

$$7x \geq 42$$

[1 mark]

Answer _____

1(e)

$$7 + x \leq 11$$

[1 mark]

Answer _____

Turn over for next question

2 Solve the following inequalities:

(Level 4)

2(a) $2x + 8 < 18$

[1 mark]

Answer _____

2(b) $3x + 10 > 13$

[1 mark]

Answer _____

2(c) $5x + 9 \leq 59$

[1 mark]

Answer _____

2(d) $10x + 6 \geq 56$

[1 mark]

Answer _____

2(e) $9x + 14 \leq 95$

[1 mark]

Answer _____

Turn over for next question

3 Solve the following inequalities:

(Level 4)

3(a)

$$-7x + 3 < -60$$

[2 marks]

Answer _____

3(b)

$$3x + 3 > 33$$

[2 marks]

Answer _____

3(c)

$$-2x - 7 \geq -7$$

[2 marks]

Answer _____

3(d)

$$-10x + 13 \leq 13$$

[2 marks]

Answer _____

Turn over for next question

4 Solve the following inequalities

(Level 6)

4(a)

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

[3 marks]

Answer _____

4(b)

$$\frac{2x - 3}{2} > \frac{x + 5}{4}$$

[3 marks]

Answer _____

4(c)

$$\frac{3 - x}{2} > \frac{x + 3}{3}$$

[3 marks]

Answer _____



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5 Solve the following inequalities

(Level 6)

5(a)

$$-1 < \frac{5x - 5}{3} < 5$$

[3 marks]

Answer _____

5(b)

$$5 < \frac{3x - 5}{2} < 9$$

[3 marks]

Answer _____

5(c)

$$-4 < 7 - 3x < 5$$

[3 marks]

Answer _____



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