ALGEBRAIC INEQUALITIES

(e) Solve $5x - 6 < 30$. [2]

(b) Solve the inequality $15t < 4t + 7$. [2]

(b) Solve $6x < 2x + 24$. [2]

(c) Solve $3 - 2n > 4n - 9$. [2]

(b) Solve the inequality $5(t - 2) > 3t + 14$. [3]

Examiner only

(d) Solve the inequality $9x + 5 < 77$. [2]

(e) Write down the smallest whole number that satisfies the inequality $4x > 45$. [2]

Smallest whole number is .....

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12. *(a)* Solve the inequality

$$7x - 3 < 14 + 4x.$$

[2]

(b) Write down the largest whole number that satisfies this inequality.

[1]

(0184/7)

(c) Solve the inequality $45 + y < 7y - 3$.
Write your answer in the form $y > a$ where a is a whole number.

$y >$ .....

[3]

15. *(a)* Solve the inequality

$$13 - 3x \geqslant 22 - 7x.$$

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[2]

(b) Write down the smallest whole number that satisfies this inequality.

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[1]

11. *(a)* Solve the inequality

$$5x + 3 > 24 - 2x.$$

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[2]

(b) Write down the smallest whole number that satisfies this inequality.

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[1]

10. *(a)* Rearrange the inequality $3 - 3n < 9 - 5n$ into the form $n <$ *some number*.

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[2]

(b) Given that n also satisfies the inequality $3n > -6$, write down all the integer values of n that satisfy both inequalities.

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[2]