

1 (a) Solve  $4(x - 5) = 18$

$x = \dots\dots\dots$   
(2)

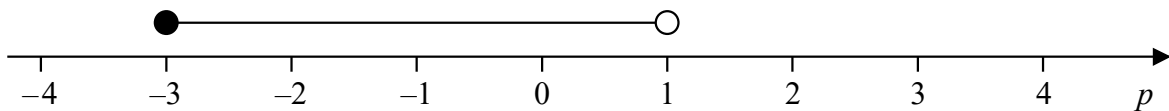
$-3 < t \leq 2$   
 $t$  is an integer.

(b) Write down all the possible values of  $t$ .

$\dots\dots\dots$   
(2)

**(Total for Question 1 is 4 marks)**

2 Here is a number line.



Write down the inequality shown on the number line.

$\dots\dots\dots$   
**(Total for Question 2 is 2 marks)**

3 Here are three symbols.



Write one of these symbols in each box to make four true statements.

$$14 \quad \square \quad 21$$

$$4 + 7 \quad \square \quad 103 - 92$$

$$2^2 \quad \square \quad 2 \times 2$$

$$-3 \quad \square \quad -5$$

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(Total for Question 3 is 2 marks)

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4 Solve  $7x - 27 < 8$

.....

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(Total for Question 4 is 2 marks)

5 The box below contains three mathematical symbols.

$=$	$<$	$>$
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From the box, choose a symbol to make each of the following statements correct.

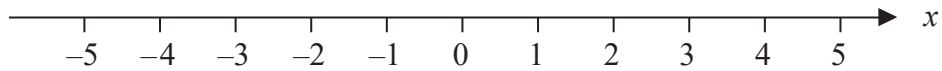
(i)  $\frac{5}{8}$  .....  $\frac{2}{8}$  (1)

(ii)  $-2 \times -3$  .....  $-3 + 9$  (1)

**(Total for Question 5 is 2 marks)**

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- 6 (a) On the number line, show the inequality  $x < 4$



(2)

$3 < y \leq 7$  where  $y$  is an integer.

- (b) Write down all the possible values of  $y$ .

.....  
(2)

- (c) Solve  $3x + 5 \geq x + 17$

.....  
(3)

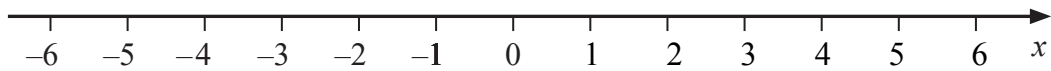
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**(Total for Question 6 is 7 marks)**

7 (a) Solve  $14n > 11n + 6$

.....  
(2)

(b) On the number line below, show the set of values of  $x$  for which  $-2 < x + 3 \leq 4$

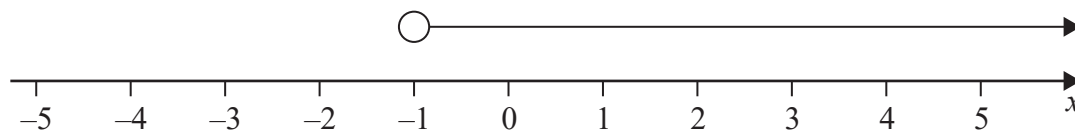


(3)

**(Total for Question 7 is 5 marks)**

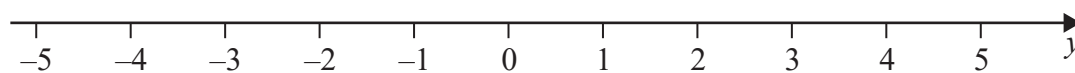
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- 8 (a) Write down the inequality shown on this number line.



.....  
(1)

- (b) On the number line below, show the inequality  $-3 \leq y < 4$



(2)

(Total for Question 8 is 3 marks)

9 (a) Solve  $\frac{5x}{2} + > 18$

.....  
(3)

(b) Factorise  $x^2 + 10x + 9$

.....  
(2)

**(Total for Question 9 is 5 marks)**

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