

Inequalities

June 2022 Paper 2

14 The box below contains three mathematical symbols.

$=$ $<$ $>$

From the box, choose a symbol to make each of the following statements correct.

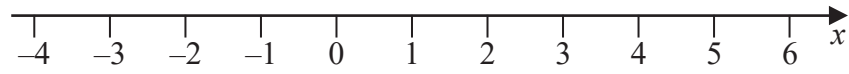
(i) $\frac{5}{8}$ $\frac{2}{8}$ (1)

(ii) -2×-3 $-3 + 9$ (1)

(Total for Question 14 is 2 marks)

November 2024 Paper 2

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

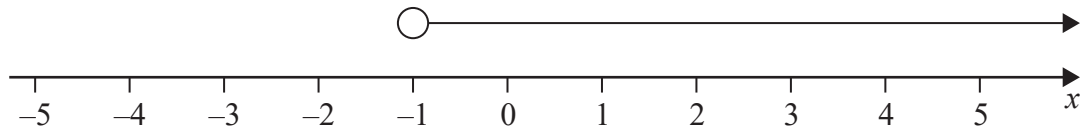


(2)

(Total for Question 19 is 4 marks)

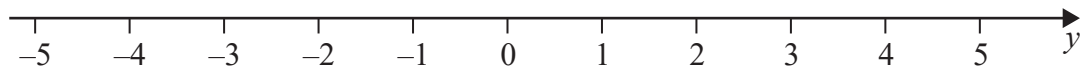
November 2021 Paper 2

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



.....
(1)

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



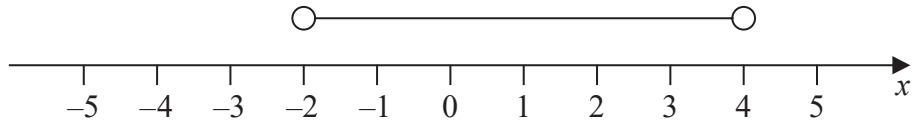
(2)

(Total for Question 21 is 3 marks)

November 2023 Paper 3

23 Jenna is asked to show the inequality $-3 < x \leq 4$ on a number line.

Here is her answer.



(a) Write down two mistakes Jenna has made.

1.....

.....

2.....

.....

(2)

(b) Work out the greatest integer that satisfies the inequality

$$5y - 7 < 16$$

.....

(2)

(Total for Question 23 is 4 marks)

June 2023 Paper 2

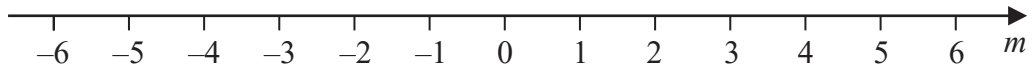
23 $-2 \leq n < 5$

n is an integer.

(a) Write down the greatest possible value of n .

.....
(1)

(b) On the number line below, show the inequality $-4 \leq m < 1$



(2)

(c) Solve $\frac{2}{5}g - 4 < 6$

.....
(3)

(Total for Question 23 is 6 marks)

June 2022 Paper 1

23 Solve $7x - 27 < 8$

.....
(Total for Question 23 is 2 marks)

June 2020 Paper 3

23 (c) Solve $\frac{5x}{2} > 7$

(2)

November 2022 Paper 1

26 (a) Solve $\frac{5x}{2} + 3 > 18$

(3)

June 2024 Paper 1

28 Solve $x + 11 \leq 5 - \frac{1}{2}x$

.....
(Total for Question 28 is 3 marks)
