Name Class



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Inequalities

(9 - 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- •Use black ink or ball-point pen.
- •Fill in the boxes at the top of this page with your name, centre number and candidate number.
- •Answer all questions.
- •Answer the questions in the spaces provided
- there may be more space than you need.
- •Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.
- •If the question is a **1F** question you are not allowed to use a calculator.
- •If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

Information

- •The marks for **each** question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.

10	Here	are	three	sym	bol	ls.



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

$$2^2$$
 2×2

June 2019 – Paper 2F

(Total for Question 10 is 2 marks)

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)

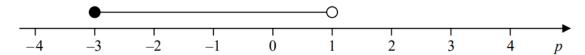
(ii) -2×-3 -3 + 9

(1)

June 2022 – Paper 2F

(Total for Question 14 is 2 marks)

19 Here is a number line.

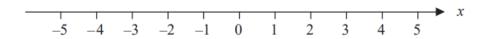


Write down the inequality shown on the number line.

November 2019 – Paper 1F

(Total for Question 19 is 2 marks)

19 (a) On the number line, show the inequality x < 4



(2)

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

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

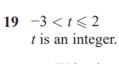
(2)

(c) Solve $3x + 5 \ge x + 17$

(3)

November 2018 – Paper 3F

(Total for Question 19 is 7 marks)



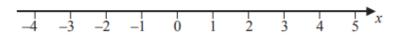
Write down all the possible values of t.

(2)

June 2017 – Paper 1F

(Total for Question 19 is 2 marks)

20 (a) Show the inequality $-2 \le x < 3$ on the number line below.



(2)

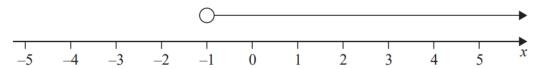
(b) Solve the inequality 4y + 7 < 16

(2)

Specimen 2 – Paper 3F

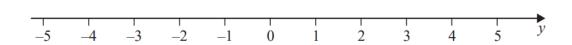
(Total for Question 20 is 4 marks)





(1)

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



(2)

November 2021 – Paper 1F

(Total for Question 21 is 3 marks)