Name

Class

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Factorise (9 – 1) Topic booklet

HIGHER

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.	
1 Factorise fully $15x^3 + 3x^2y$	
	(2)
une 2022 – Paper 2H	(2) (Total for Question 1 is 2 marks)
ane 2022 – 1 aper 211	(Total for Question 1 is 2 marks)
1 Factorise fully $9x^2 + 6x$	
	(2)
November 2019 – Paper 3H	(Total for Question 1 is 2 marks)
1 Factorise $y^2 + 27y$	
	(1)
	(Total for Question 1 is 1 mark)

6 Factorise $x^2 + 3x - 4$	
Specimen 1 – Paper 3H	(Total for Question 6 is 2 marks)
9 Factorise $y^2 + 7y + 6$	
Sample 1 – Paper 3H	(2) (Total for Question 9 is 2 marks)
10 Factorise fully $50 - 2y^2$	
November 2018 – Paper 1H	(2) (Total for Question 10 is 2 marks)

13 Factorise $(x + y)^2 + 3(x + y)$	·
	(1)
November 2019 – Paper 1H	(Total for Question 13 is 1 mark)
14 Factorise fully $4p^2 - 36$	
	(2)
June 2022 – Paper 3H	(Total for Question 14 is 2 marks)

June 2018 – Paper 1H

(Total for Question 15 is 1 mark)

(1)

16 Factorise fully $20x^2 - 5$

Sample 1 – Paper 1H

(Total for Question 16 is 2 marks)