Name	Class

MATHS TEACHER HUB

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Change the subject

(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.

11 Make v the subject of the formula $T = 4v + 3$

.....

(2)

June 2017 – Paper 3F **(Total for Question 11 is 2 marks)**

19 Make x the subject of the formula $y = 2x + 4$

.....

June 2019 – Paper 3F **(Total for Question 19 is 2 marks)**

20 Make t the subject of the formula $w = 3t + 11$

.....

Specimen 1 – Paper 2F **(Total for Question 20 is 2 marks)**

21 Make a the subject of the formula $p = 3a - 9$

.....

November 2022 – 3F **(Total for Question 21 is 2 marks)**

21 Make s the subject of $v^2 = u^2 + 2as$

.....

(2)

November 2018 – Paper 1F **(Total for Question 21 is 2 marks)**

21 $q = \frac{p}{r} + s$

Make p the subject of this formula.

.....

Sample 1 – Paper 2F **(Total for Question 21 is 2 marks)**

23 Make p the subject of the formula $d = 3p + 4$

.....

(2)

June 2022 – Paper 3F **(Total for Question 23 is 2 marks)**

24 Make t the subject of the formula $y = \frac{t}{3} - 2a$

Specimen 2 – Paper 3F **(Total for Question 24 is 2 marks)**

28 Make g the subject of the formula $T = \sqrt{\frac{g+6}{2}}$

May 2018 – Paper 3F **(Total for Question 28 is 3 marks)**

30 Make q the subject of $p = 6q + 7$

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(2)

May 2020 – Paper 1F

(Total for Question 30 is 2 marks)