Name	Class

♜ MATHS TEACHER HUB
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Using a calculator
(9 – 1) Topic booklet
Foundation

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.

2 Work out $\dfrac{30 + 12}{5 + 3}$

....

Specimen 1 – Paper 3F   **(Total for Question 2 is 1 mark)**

4 Find the value of $(2.8 - 0.45)^2 + \sqrt[3]{5.832}$

....

Sample 1 – Paper 2F   **(Total for Question 4 is 2 marks)**

8 (a) Find the value of $\sqrt{1.44 \times 3.61}$

....

(1)

(b) Find the value of $(3.54 - 0.96)^2 - 4.096$

....

(2)

(Total for Question 8 is 3 marks)

9 (a) Work out the value of $\dfrac{300}{2 \times 5}$

....

(1)

(b) Work out the value of $(6 - 2.5)(8 + 4)$

....

(1)

(c) Write down the reciprocal of 20

....

(1)

　　　　　(Total for Question 9 is 3 marks)

9 (a) Find the value of $\sqrt[3]{97.336}$

....

(1)

(b) Find the value of $\sqrt{7.29} + (2.3 - 0.85)^2$

....

(2)

　　　　　(Total for Question 9 is 3 marks)

4

12 (a) Work out $\sqrt{\dfrac{13.82}{4.06}}$

Write down all the figures on your calculator display.

....

(2)

(b) Give your answer to part (a) correct to 2 decimal places.

....

(1)

(Total for Question 12 is 3 marks)

12 Find the value of $\dfrac{\sqrt{13.4 - 1.5}}{(6.8 + 0.06)^2}$

Write down all the figures on your calculator display.

....

(Total for Question 12 is 2 marks)

14 Find the value of $\dfrac{5.27 + 3.5}{7.9 - 4.36}$

Give your answer as a decimal.
Write down all the figures on your calculator display.

....

(Total for Question 14 is 2 marks)

15 Work out $\dfrac{2.75 \times 14.6}{10 - 1.97}$

....

(Total for Question 15 is 2 marks)

15 (a) Work out $\frac{4}{5}$ of 210 cm.

.... cm
(1)

(b) Work out $(6 - 2.5)^2 + \sqrt{9.34 - 2.58}$

....
(2)

(Total for Question 15 is 3 marks)

17 (a) Write 87 569 correct to 3 significant figures.

....
(1)

(b) Work out $\dfrac{(3.2 + 3.7) \times 4.9}{5.3 - 2.8}$

Give your answer as a decimal.

....
(2)

(Total for Question 17 is 3 marks)

18 (a) Work out $\dfrac{9.8 + 6.8}{4.2 \times 2.1}$

Give your answer as a decimal.
Write down all the figures on your calculator display.

....

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

....

(1)

(Total for Question 18 is 3 marks)

19 (a) Work out the value of $\dfrac{\sqrt{35.2 + 1.7^3}}{4.6^2 - 8.91}$

Write down all the numbers on your calculator display.

....

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

....

(1)

(Total for Question 19 is 3 marks)

20 (a) Work out the value of $\dfrac{25 - \sqrt{43.87}}{6 + 2.1^2}$

Write down all the figures on your calculator display.

....

(2)

(b) Work out the value of the reciprocal of 0.625

....

(1)

(Total for Question 20 is 3 marks)

20 (a) Write 7357 correct to 3 significant figures.

....

(1)

(b) Work out $\dfrac{\sqrt{17 + 4^2}}{7.3^2}$

Write down all the figures on your calculator display.

....

(2)

(Total for Question 20 is 3 marks)

23 (a) Use your calculator to work out $\dfrac{29^2 - 4.6}{\sqrt{35} - 1.9^3}$

Write down all the figures on your calculator display.

....

(2)

(b) Write your answer to part (a) correct to 4 significant figures.

....

(1)

November 2019 – Paper 3F   **(Total for Question 23 is 3 marks)**

23 Use your calculator to work out $\sqrt{\dfrac{\sin 25^\circ + \sin 40^\circ}{\cos 25^\circ - \cos 40^\circ}}$

(a) Write down all the figures on your calculator display.

....

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

....

(1)

November 2017 – Paper 2F   **(Total for Question 23 is 3 marks)**

23   Find the value of the reciprocal of 1.6
Give your answer as a decimal.

....
(1)

(Total for Question 23 is 1 mark)