A screenshot of a cell phone

Description automatically generated

**Calculator skills**

**Foundation Tier**

**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.*
* You must **show all your working.**
* Diagrams are **NOT** accurately drawn, unless otherwise indicated.
* If your calculator does not have a *π* button, take the value of *π* to be3.142

unless the question instructs otherwise.

**Information**

* The total mark for this paper is **27**. There are **11** questions.
* Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
* 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.

**1** Find 

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**(Total for Question 3 is 1 mark)**

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**2** Find the value of 

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**(Total for Question 2 is 1 mark)**

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**3** (*a*)Find the value of 

.......................................................

(**1**)

(*b*)Find the value of (3.54 – 0.96)2 – 4.096

.......................................................

(**2**)

(**Total for Question 3 is 3 marks**)

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**4** (a) Use your calculator to work out 

Write down all the digits on your calculator display.

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**(2)**

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

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**(1)**

**(Total for Question 4 is 3 marks)**

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**5** Find the value of 

Give your answer as a decimal.

Write down all the figures on your calculator display.

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**(Total for Question 5 is 2 marks)**

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**6** (*a*) Work out 

Give your answer as a decimal.

Write down all the digits on your calculator display.

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**(2)**

(*b*) Give your answer to part (*a*) correct to 1 decimal place.

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**(1)**

**(Total for Question 6 is 3 marks)**

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**7** Work out the value of 

Give your answer correct to 2 decimal places.

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**(Total for Question 7 is 3 marks)**

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**8** Find the value of 

Write down all the figures on your calculator display.

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**(Total for Question 8 is 2 marks)**

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**9** (a) Use your calculator to work out the value of



Write down all the digits on your calculator display.

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**(2)**

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

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**(1)**

**(Total for Question 9 is 3 marks)**

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**10** Use your calculator to work out 

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

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**(2)**

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

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**(1)**

**(Total for Question 10 is 3 marks)**

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**11** (*a*)Use your calculator to work out 

Write down all the figures on your calculator display.

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**(2)**

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

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**(1)**

**(Total for Question 11 is 3 marks)**

**TOTAL MARKS FOR PAPER: 27**