A screenshot of a cell phone

Description automatically generated

**Fractions, Decimals and Percentage**

**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 **27** 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**

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

**1** Write 0.23 as a percentage.

....................................................... %

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

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**2** Write 0.73 as a percentage.

....................................................... %

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

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**3** Write  as a decimal.

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

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

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4** Write 0.31 as a fraction.

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

**(Total for Question 4 is 1 mark)**

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**5** Write 19% as a fraction.

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

**(Total for Question 5 is 1 mark)**

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**6** Write 0.7 as a fraction.

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**(Total for Question 6 is 1 mark)**

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**7** Write 15% as a decimal.

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**(Total for Question 7 is 1 mark)**

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**8** Write  as a decimal.

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**(Total for Question 8 is 1 mark)**

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**9** Write 0.75 as a fraction.

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**(Total for Question 9 is 1 mark)**

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**10** Write 20% as a fraction.

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(**Total for Question 10 is 1 mark**)

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**11** Write 0.6 as a percentage.

...................................................... %

**(Total for Question11 is 1 mark)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12** Write 0.3 as a percentage.

.......................................................%

**(Total for Question 12 is 1 mark)**

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**13** Write 3% as a fraction.

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**(Total for Question 13 is 1 mark)**

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**14** Write  as a percentage.

......................................................%

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

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**15** Write  as a percentage.

.......................................................%

(**Total for Question 15 is 1 mark**)

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**16** Write the fraction  in its simplest form.

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**(Total for Question 16 is 1 mark)**

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**17** Write  as a fraction in its simplest form.

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

**(Total for Question 5 is 1 mark)**

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**18** Write  as a decimal.

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

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**19** Write 0.2 as a percentage.

......................................................%

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

**20** Write 8% as a decimal.

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

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

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**21** Write 27% as a fraction.

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

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**22** Write 0.09 as a fraction.

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

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

**23** 60% of the students at a school walk to school.

Work out the percentage of the students who do **not** walk to school.

.......................................................%

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

**24** Write  as a decimal.

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

**(Total for Question 4 is 1 mark)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**25** Here is a list of fractions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

One of these fractions is **not** equivalent to 

Which fraction?

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

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

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**26** Write  as a percentage.

......................................... %

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

**27** Writeas a percentage.

......................................... %

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

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TOTAL MARKS FOR PAPER: 27**