Write your name, centre number and candidate number in the boxes below.

Surname	Other names

Centre number | | | | | |

Candidate number | | | | |

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Recurring decimals

Time allowed: 35 minutes

Subject code **0580**

Mathematics

Paper 2 (Extended)

You must have: a ruler marked in centimetres and millimetres, a protractor, compasses, a pen, an HB pencil and an eraser.
You may use a calculator.

Total marks

/ 26

Instructions

- Answer every question in the space provided on this paper.
- Write in black or dark blue ink. Pencil may be used for diagrams and graphs.
- Fill in your name, centre number and candidate number above.
- Show your working: a correct method can earn marks even if the answer is wrong.
- Unless a question says otherwise, give answers that are not exact to 3 significant figures, and angles in degrees to 1 decimal place.

Information

- This paper has 10 questions worth 26 marks in total.
- The marks for each question or part are shown in brackets, for example [3].

Advice

- Read every question through once before you write anything.
- Use the marks in brackets to judge how long to spend on each part.
- If you finish early, go back and check your working.

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Print at 100% (Actual size) so diagrams keep their real measurements.

1 Write the recurring decimal $0.\dot{7}$ as a fraction.

..... [1]

Recurring decimals Click for more variations

2 Write the recurring decimal $0.\dot{2}$ as a fraction.
[$0.\dot{2}$ means 0.222…]

..... [2]

Recurring decimals Click for more variations

3 Write the recurring decimal $0.1\dot{5}$ as a fraction.
[$0.1\dot{5}$ means 0.1555...]

Answer ..... [2]

Recurring decimals Click for more variations

4 Write $0.\dot{2}\dot{4}$ as a fraction in its simplest form.

..... [2]

Recurring decimals Click for more variations

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5 Write the recurring decimal $0.\dot{6}\dot{3}$ as a fraction in its lowest terms.
You must show all your working.

.....[3]

Recurring decimals Click for more variations

6 Write $0.4\dot{2}$ as a fraction in its simplest form.
You must show all your working.

..... [3]

Recurring decimals Click for more variations

7 Write $0.6\dot{2}\dot{1}$ as a fraction in its simplest form.
You must show all your working.

..... [3]

Recurring decimals Click for more variations

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8 Write $0.4\dot{1}\dot{9}$ as a fraction in its simplest form.
You must show all your working.

..... [3]

Recurring decimals Click for more variations

9 Work out $0.1\dot{1}\dot{4} + 0.2$.
Give your answer as a fraction.

..... [3]

Recurring decimals Click for more variations

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10 Work out.

$$\frac{5}{9} + 0.2\dot{8}$$

Give your answer as a fraction in its simplest form.

..... [4]

Recurring decimals Click for more variations

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