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

Surname	Other names

Centre number | | | | | |

Candidate number | | | | |

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Fractions, decimals and the four operations

Time allowed: 30 minutes

Subject code **0580**

Mathematics

Questions from Paper 1 and Paper 2

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 16% as

(a) a decimal,

..... [1]

(b) a fraction.

..... [1]

(a) Converting fractions, decimals and percentages (b) Converting fractions, decimals and percentages

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

$$19.5 \times 20.4 = 397.8$$

Work out.

(a) 1.95×2.04

..... [1]

(b) $3978 \div 204$

..... [1]

(a) Converting fractions, decimals and percentages (b) Converting fractions, decimals and percentages

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4 Some students take a test.
75 of the students pass the test.
This is $\frac{3}{5}$ of the students who take the test.

Work out how many students take the test.

..... [2]

Basic fractions Click for more variations

5 Insert brackets to make each statement correct.

(a) 7 + 2 × 9 = 81 [1]

(b) 36 ÷ 6 ÷ 2 = 12 [1]

(c) 5 × 3 + 6 × 2 = 90 [1]

(a) Order of operations (BIDMAS) (b) Order of operations (BIDMAS) (c) Order of operations (BIDMAS)

Click for more variations

6 Without using your calculator, work out $\frac{5}{6} - \left(\frac{1}{2} \times 1\frac{1}{2}\right)$.

Write down all the steps of your working.

Answer ..... [3]

Adding and subtracting fractions Click for more variations

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7 **Without using a calculator**, work out $1\frac{2}{3} \div 7\frac{1}{2}$.
You must show all your working and give your answer as a fraction in its simplest form.

..... [3]

Multiplying and dividing fractions Click for more variations

8 **Without using a calculator**, work out $1\frac{1}{7} \times 2\frac{1}{10}$.
You must show all your working and give your answer as a mixed number in its simplest form.

..... [3]

Multiplying and dividing fractions Click for more variations

9 Jonah has \$750.
He spends $\frac{1}{4}$ of this money on travel, and some of this money on food.
He now has \$437.50 .

Work out the fraction of the \$750 he spends on food.

..... [3]

Basic fractions Click for more variations

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10 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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