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

Surname	Other names

Centre number | | | | | |

Candidate number | | | | |

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Exchange rates

Time allowed: 35 minutes

Subject code **0580**

Mathematics

Questions from Paper 1, Paper 2 and Paper 3

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

/ 29

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 29 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 A suit costs 6500 rupees.

Calculate the cost of the suit in dollars when the exchange rate is 1 rupee = \$0.013 .

\$ ..... [1]

Exchange rates Click for more variations

1	84.5[0]	**1**	

2 Nazaneen changes \$6500 into 5798 euros at a bank.

Work out the exchange rate the bank uses.

\$1 = ... euros [1]

Exchange rates Click for more variations

2	0.892	**1**	

3 Gregor changes \$700 into euros (€) when the rate is €1 = \$1.4131 .

Calculate the amount he receives.

Answer € ..... [2]

Exchange rates Click for more variations

3	495.36	**2**	**M1** for 700 ÷ 1.4131

4 Change 600 euros into dinars when the exchange rate is 1 euro = 0.429 dinars.
Give your answer correct to the nearest dinar.

..... dinars [2]

Exchange rates Click for more variations

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4	257	**2**	**B1** for 257.4

5

1 euro = $1.09 $1 = 62 rupees

Change 400 euros into rupees using these exchange rates.

..... rupees [2]

Exchange rates Click for more variations

5	27032 cao	**2**	**M1** for 400 × 1.09 [× 62] or 62 × 1.09[× 400]

6 The price of a toy is 12 euros (€) in Germany and 14 Swiss francs in Switzerland.
1 Swiss franc = €0.905

Calculate the difference between these two prices.
Give your answer in euros.

€ .....[2]

Exchange rates Click for more variations

6	[0].67	**2**	**M1** for 14 × 0.905 [–12] or 12.67 If zero scored, **SC1** for answer [0].74[0]

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7 The exchange rate is \$1 = 0.923 euros.

Calculate the difference between 750 euros and \$846.
Give your answer in euros correct to 2 decimal places.

..... euros [3]

Exchange rates Click for more variations

7	30.86 cao	**3**	**B2** for 30.858 or **M1** for 846×0.923 or $\left(846 - \frac{750}{0.923}\right) \times 0.923$ **B1** for rounding their answer correct to 2 decimal places

8

Exchange rates
1 euro = 1.05 dollars
1 rupee = 0.013 dollars

Vani changes x euros into dollars.
She then changes the dollars into 17 850 rupees.

Calculate the value of x.

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$x =$ ..... [3]

Exchange rates Click for more variations

8	221	**3**	**M2** for $\frac{17850\times0.013}{1.05}$ or **M1** for 17850×0.013 or for $\frac{1.05x}{0.013} = 17850$

9 A chef buys some cheese from France.
200 g of cheese costs 3.45 euros.
The exchange rate is \$1 = 0.84 euros.

Work out the maximum mass of cheese the chef can buy with \$150.
Give your answer in kilograms, correct to 1 decimal place.

..... kg [4]

Exchange rates Click for more variations

9	7.3 cao	**4**	**M3** for $\frac{150\times0.84}{3.45\times5}$ or **B3** for final answer figs 73[04...] or **M2** for $\frac{150\times0.84}{3.45}$ or $\frac{3.45\times5}{0.84}$ or **M1** for 150×0.84 or 3.45×5 or $\frac{3.45}{0.84}$

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10 **(a)** Using the exchange rates

$1 = 0.70 Euros and $1 = 90 Yen

change

(i) $100 to Euros,

Answer(a)(i) ..... Euros [1]

(ii) 100 Yen to dollars.

Answer(a)(ii) $ ..... [2]

(b) Tania went on holiday to Switzerland.
The exchange rate was $1 = 1.04 Swiss francs (CHF).
She changed $1500 to Swiss francs and paid 1% commission.

(i) How much commission, in dollars, did she pay?

Answer(b)(i) $ ..... [1]

(ii) Show that she received CHF 1544.40.

Answer (b)(ii)

[2]

(c) Tania spent CHF 950 on her holiday.
She converted the remaining Swiss francs back into dollars.
She paid CHF 10 to make the exchange.

Calculate the amount, in dollars, Tania received.

Answer(c) $ ..... [3]

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(a)(i) Exchange rates (a)(ii) Exchange rates (b)(i) Basic percentages (b)(ii) Exchange rates (c) Exchange rates Click for more variations

10	**(a)** **(i)** 70 cao	**1**	
	(ii) 1.11(11…)	**2**	**B1** for $100 \div 90$, $10 \div 9$, $1\frac{1}{9}$
	(b) **(i)** 15 cao	**1**	
	(ii) $(1500 - 15) \times 1.04$	**2**	**B1** for $\times 1.04$, 1560, 15.60
	(c) 561.92	**3**	**M1** for $1544.40 - 950 - 10$ (584.40) oe **M1** indep for $\div 1.04$

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