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### WJEC GCSE Mathematics and Numeracy (Double Award) – Question Pack

Currency conversion at a single fixed rate: pounds to a foreign currency and back, with awareness of fees and reasonable rounding. Sourced from legacy

**REVISE**  
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## F1.05 – Foreign currency & exchange rates

### *Spec 1.8.2 – Unit 1 (calculator allowed)*

*Currency conversion at a single fixed rate: pounds to a foreign currency and back, with awareness of fees and reasonable rounding. Sourced from legacy WJEC GCSE Mathematics-Numeracy Foundation papers (3300U10/U20) and accessible content from Intermediate papers (3300U30/U40), organised for revision under the 2025 spec.*

2025 SPECIFICATION

#### **Estimated time for entire question pack: ~44 minutes**

*Derived from the GCSE Higher pace of ~1.5 min/mark (29 marks across 5 questions).*

*You are advised to **not** attempt to complete all of this in one sitting.*

#### **ABOUT THIS QUESTION PACK**

This is a **focused single-topic practice pack**, not a single mock paper. Questions are organised against the 2025 specification. Questions are ordered chronologically by sitting, with custom-written and SAM questions at the end.

#### **INSTRUCTIONS**

Use black ink or black ball-point pen. Show all working – method marks are awarded for clear setup.

*A calculator is allowed on every question in this pack (Unit 1 is the calculator-allowed paper).*

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# Foreign currency & exchange rates – what the new spec asks

WJEC GCSE Mathematics (first teaching 2025) · Unit 1: calculator-allowed.

## Exchange rates 1.8.2

- Use an exchange rate to convert £ to foreign currency.
- Use the reciprocal to convert back.
- Compare two rates to find the better deal.

## Multi-step conversion 1.8.2

- Account for commission or flat fees before converting.
- Apply rounding only at the final step.
- Interpret rates given as either £:foreign or foreign:£.

## Estimation 1.8.1

- Estimate roughly to sanity-check the answer.
- Use approximate rates for quick checks.
- Spot answers off by a factor of 10 or 100.

## Exam strategy 1.8

- Write down the rate clearly before starting.
- Show conversions step by step.
- Final answer in the currency the question asked for.

## Foreign currency & exchange rates in one page

Quick-reference notes – revisit before each question. Don't use during the questions.

### Pounds → foreign

$$\text{foreign} = \text{pounds} \times \text{rate}$$

If £1 = 1.20 euros, then £50 =  $50 \times 1.20 = 60$  euros.

### Foreign → pounds

$$\text{pounds} = \text{foreign} \div \text{rate}$$

60 euros  $\div 1.20 = \text{£}50$ .

### Which way?

If you're multiplying, double-check the answer is the right order of magnitude. Stronger currency  $\Rightarrow$  fewer of them per £.

### Fees

Some exchanges take a flat fee or a % commission *before* converting.

amount converted = (amount - fee)  $\times$  rate.

### Rounding

Round money sensibly – usually 2 dp.

Don't round mid-calculation; round once at the end.

### Common traps

- Multiplying when you should divide (or vice versa).
- Forgetting the commission/fee.
- Rounding too early.

Examiner  
only

4. Viktor runs a plumbing company that is based abroad.

- (a) In April 2022, the rate of VAT that Viktor had to pay on goods increased to 23%.  
In May 2022, Viktor bought goods worth 4000 euros before VAT.  
If he had bought the goods before April, the VAT would have been 800 euros.

How much more VAT did Viktor pay on the goods in May than he would have done if he had bought them before April? [3]

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..... euros

- (b) Viktor pays 3600 euros towards his tax bill.  
The exchange rate is £1 = 1.11 euros.  
How much is 3600 euros in pounds?  
Give your answer correct to the nearest penny. [2]

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Examiner only

5. (a) Last year, Viktor's total income before tax was 28 000 euros.

The tax bands, taxable income and tax rates for last year were as follows:

Band	Taxable income	Tax rate
Personal allowance	Up to 10 000 euros	0%
Basic rate	10 000 euros to 25 000 euros	22%
Higher rate	Over 25 000 euros	35%

Viktor has already paid 3600 euros towards his income tax bill for last year. Calculate how much income tax Viktor still owes. You must show all your working.

[7]

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(b) When Viktor paid 3600 euros towards his bill, the exchange rate was £1 = 1.11 euros. How much was 3600 euros in pounds? Give your answer correct to the nearest penny.

[2]

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Examiner  
only

8. (a) Rita gives some money to charity.  
She decides to share this money between 3 different charities.

Rita gives \$40 to a children's charity.

This is  $\frac{1}{5}$  of the total amount of money she gives to the 3 charities.

Rita gives  $\frac{1}{4}$  of the total amount of money to an animal charity.

She gives the remaining money to a medical research charity.

Calculate how much money Rita gives to the medical research charity.

You must show all your working.

[5]

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(b) Last year, Rita's total income before tax was \$30 000.

No income tax was payable on any income below \$10 000.

Income tax had to be paid at a rate of 22% on any income between \$10 000 and \$30 000.

How much income tax did Rita pay last year?

[3]

Examiner  
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3. Erin owns a small shop.

- (a) Erin sells Franberg bottled water in her shop. Franberg is only available in bottles of one size.

The weather in 2018 was hotter than usual.  
In 2018, Erin sold 35% more bottles of Franberg than in 2017.  
In 2019, Erin sold 21% fewer bottles of Franberg than in 2018.



Erin sold 2000 bottles of Franberg in 2017.  
Calculate the number of bottles of Franberg Erin sold in 2019.  
You must show all your working.

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- (b) Last year, Erin's income from her shop was 26 000 euros. Erin had to pay tax on all of this income. She paid 20% tax on the first 15 000 euros of this income. She paid 30% tax on the rest of this income above 15 000 euros.

Calculate how much tax Erin paid in total.  
You must show all your working.

[5]

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Examiner only

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6. Erin owns a small shop.  
Last year, Erin's income from her shop was 26 000 euros.  
Erin had to pay tax on all of this income.  
She paid 20% tax on the first 15 000 euros of this income.  
She paid 30% tax on the rest of this income above 15 000 euros.

Calculate how much tax Erin paid in total.  
You must show all your working.

[5]

Examiner  
only

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