## **Intermediate Tier Numeracy PPQs**

- Catrin went on holiday to Brazil.
  - (a) She changed £850 into Brazilian Real (RS) when the exchange rate was £1 = 5.44 R\$. How many Brazilian Real (R\$) did she receive?

E850 x 5.44 = 4624 R\$

(b) Whilst on holiday, she went on a four which cost 500 R\$ What was the cost of the four in pounds?

[2]

500 - 5.44 = £91.91

2. The currency in Brazil is known as the Brazilian Real, BRL

Year	Pound (£)	Brazilian Real (BRL)
2010	1	2.86
2014	1	3.71

In 2010, Ava bought £3400 worth of Brazilian Real, BRL In 2014, Ava exchanged this money back into pounds.

Did Ava gain or lose money?

State how much money Ava gained or lost, giving your answer correct to the nearest pound

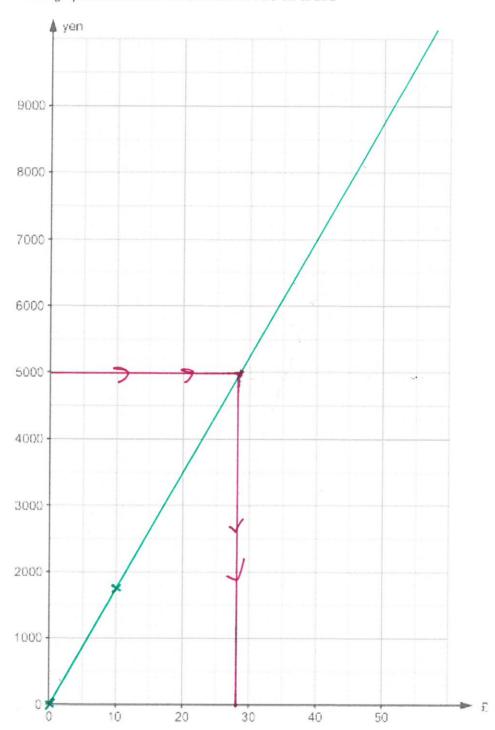
 $h = 2010 = £3400 \times 2.86 = 9724 \text{ BRL}$   $h = 2014 = 9724 \div 3.71 = £2621 \text{ to nearly } £$ So she loves 3400 - 2621 = £779.

3. Dylan is going on a trip to Japan. The exchange rate at the time of his trip is £1 = 175 yen.

(a) Draw a conversion graph between  $\Sigma$  and yen on the graph paper below. The graph should show the conversion from  $\Sigma 0$  to  $\Sigma 50$ 

[3]





(b) Use your graph, or otherwise, to convert 20,000 yen into pounds. Give your answer correct to the nearest pound.

5000 yen = £28

X4 x

20000 you = £112

[2]

4. Dewi is going on holiday to China.

> He has found the following rates for exchanging pounds sterling (£) and Chinese yuan (CYN) at a local exchange bureau.

Buying Chinese yuan (CYN)	£1 buys 9 28 CYN	
Selling Chinese yuan (CYN)	9 42 CYN buys £1	

The exchange bureau has all the possible sterling coins and notes Dewi knows that the exchange bureau only sells and buys CYN notes and that no coins are available or accepted.

The bureau has many of the following CYN notes



Dewi has £460 to buy Chinese yuan

## Calculate

- · the maximum number of CYN Dewi can buy, and
- · how much, to the nearest penny, this will cost him

You must show all your working

[5] £ 460 × 9.28 = 4268.8 CYN he can buy 4268 CM is notes

this will cost 4268 - 9.28 = £459.91

,	he has lot 100 - 98.51 = £1.49
i.	Jack has returned to the UK having been working in Europe.
	He has 450 curos, which he wants to exchange into pounds.  The exchange rate he is offered at the bank for changing curos into pounds is £1 = 1.20 curos.
	His sister Gillian is about to go on holiday to France and intends to exchange £400 into curos. The exchange rate she is offered at the bank for changing pounds into curos is $fl = 1.08$ curos.
	Rather than going to the bank.  • Jack gives Gillian his 450 curos.  • Gillian gives Jack her £400.
	Show how both Jack and Gillian save money by doing this.
	If JACk changes his € into \$\pm\$ he will get  € 450 ÷ 1.20 = \$\pm\$84 \$\pm\$375
	If Gill changes her £ into € she will get
	£400 × 1.08 = € 432
	So if they just swap their money, Jack gots 400-375
	Gill gots € 450 - 432 = €18 more