Name: _____

GCSE (1 – 9)

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Exchange Rates

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

Information

- The marks for each Question are shown in brackets
- *use this as a guide as to how much time to spend on each Question.*

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1 Beth goes on holiday to Spain.
The exchange rate is £1 = €1.13

She changes £350 into Euros (€).

(a) Work out how many Euros she receives.

$$£ \qquad €$$
$$1 \qquad 1.13$$
$$350 \times x$$

$$x = 350 \times 1.13$$
$$= 395.50$$

€....395.50........

When Beth returns from holiday she changes €120 back into pounds.
The exchange rate is now £1 = €1.16

(b) Work out how many pounds (£) Beth receives.
Give your answer to the nearest penny.

$$£ \qquad €$$
$$1 \qquad 1.16$$
$$x \qquad 120$$

$$1.16x = 120$$
$$x = \frac{120}{1.16} = 103.45$$

£....103.45........

(Total for question 1 is 4 marks)

2 Ben went on holiday to Australia. He changed £350 into Australian dollars ($).
The exchange rate was £1 = $2.1

(a) Work out how many Australian dollars Ben should have received.

$$£ \qquad AU\$$$
$$1 \qquad 2.1$$
$$350 \times x$$

$$x = 350 \times 2.1$$
$$= 735$$

$....735.................

When Ben returned he changed $100 back into pounds.
The new exchange rate was £1 = $2.2

(b) Work out how many pounds Ben should have received.
Give your answer to the nearest penny.

$$£ \qquad \$$$
$$1 \qquad 2.2$$
$$x \qquad 100$$

$$2.2x = 100$$
$$x = \frac{100}{2.2} = 45.45$$

£....45.45...........

(Total for question 2 is 4 marks)

3 Nicole is on holiday in France.
She spends €14.50 in a cafe.

The exchange rate is £1 = €1.15

Calculate how much Nicole spends in pounds (£).

$$£ \qquad €$$
$$1 \qquad 1.15$$
$$x \diagdown 14.50$$

$$1.15x = 14.50$$
$$x = \frac{14.50}{1.15} = 12.61$$

£ ....12.61.............

(Total for question 3 is 2 marks)

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4 Amy is on holiday in Turkey
She changes £200 to Turkish lira.

The exchange rate is £1 = 7.7 Turkish lira

Calculate how many Turkish lira Amy receives

$$£ \qquad TL$$
$$1 \qquad 7.7$$
$$200 \diagdown x$$

$$x = 200 \times 7.7$$
$$= 1540$$

£ ......1540.............

(Total for question 4 is 2 marks)

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5 Mario is on holiday in Japan

He stays in a hotel for 7 nights.
The hotel costs ¥10000 for each night.

$$7 \times 10000 = 70000$$

The exchange rate is £1 = ¥140

Calculate how much Mario spends on the hotel in pounds.

$$£ \qquad ¥$$
$$1 \qquad 140$$
$$x \diagdown 70000$$

$$140x = 70000$$
$$x = \frac{70000}{140} = 500$$

£ ....500.............

(Total for question 5 is 2 marks)

6 Brian bought a hat in France. He paid €45.
The same hat in England costs £39.99.

The exchange rate is £1 = €1.12

Is the hat cheaper in France or in England?
You must show your working.

$$£ \qquad €$$
$$1 \qquad 1.12$$
$$x \qquad 45$$

$$45 = 1.12x$$

$$x = \frac{45}{1.12}$$

$$= £40.18 \quad (\text{The hat's price in France})$$

It is cheaper in England.

(Total for question 6 is 3 marks)

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7 A pair of trainers cost 3400 rupees in India.
The same pair of trainers cost £68 in the UK.

The exchange rate is £1 = 92 rupees.

Work out the difference between the cost of the trainers in India and in the UK.
Give your answer in pounds (£).

$$£ \qquad INR$$
$$1 \qquad 92$$
$$x \qquad 3400$$

$$3400 = 92x$$

$$x = \frac{3400}{92} = £36.96 \quad (\text{In India})$$

$$68 - 36.96 = £31.04$$

£...........31.04...........

(Total for question 7 is 3 marks)

8 Carla is on holiday in Italy.
She spends €35 in a restaurant.

The exchange rate is €1 = £0.89

Calculate how much Carla spends in pounds (£).

$$€ \qquad £$$
$$1 \qquad 0.89$$
$$35 \qquad x$$

$$x = 35 \times 0.89$$
$$= £31.15$$

£ ......31.15.................

(Total for question 8 is 2 marks)

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9 The exchange rate in London is £1 = \$1.31

The exchange rate in New York is \$1 = £0.79

Bernie wants to change some pounds into dollars.

In which of these cities would Bernie get the most dollars?
You must show your working.

NEW YORK:

$$\$ \qquad £$$
$$1 \qquad 0.79$$
$$x \qquad 1$$

$$1 = 0.79x$$
$$x = \frac{1}{0.79}$$
$$= 1.27$$

In New York £1 = \$1.27

Bernie would get the most dollars in London.

(Total for question 9 is 3 marks)

10 George is going on a trip to Vietnam.

He wants to change £750 into Vietnamese dong.
George wants to get as many 200 000 dong notes as possible.

The exchange rate is £1 = 29 000 dong.
Work out the greatest number of 200 000 dong notes that George can get for £750

$$£ \qquad VD$$
$$1 \qquad 29\ 000$$
$$750 \qquad x$$

$$x = 29\ 000 \times 750$$
$$= 21\ 750\ 000$$

$$\frac{21\ 750\ 000}{200\ 000} = 108.75$$

108

(Total for question 10 is 3 marks)

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11 In Australia a car costs \$26 500
In Ireland the same car costs €17 500

The exchange rates are £1 = \$1.96 and £1 = €1.14

Work out the difference in price between the car in Australia and Ireland.
Give your answer in pounds (£).

$$£ \qquad AU\$$$
$$1 \qquad 1.96$$
$$x \qquad 26500$$

$$1.96x = 26500$$
$$x = \frac{26500}{1.96}$$
$$= £13520.41$$

$$£ \qquad €$$
$$1 \qquad 1.14$$
$$x \qquad 17500$$

$$1.14x = 17500$$
$$x = \frac{17500}{1.14}$$
$$= £15350.88$$

$$15350.88 - 13520.41$$

£ 1830.47

(Total for question 11 is 4 marks)

12 In London potatoes cost £0.45 per lb.
In Dublin potatoes cost €1.48 per kilogram.

$$1 \text{ kg} = 2.2 \text{ lbs}$$
$$£1 = €1.15$$

In which city are potatoes better value for money, London or Dublin?
You must show your working.

DUBLIN €1.48 for 2.2 lbs

€   lbs

1.48   2.2
x   ✕   1

$2.2x = 1.48$

$x = \dfrac{1.48}{2.2}$

$= 0.67\dot{2}$

(€ per lb)

£   €

1   1.15
x   ✕   0.672

$1.15x = 0.672$

$x = \dfrac{0.672}{1.15}$

$= £0.58$

£0.58 per lb in Dublin

London is better value

(Total for question 12 is 3 marks)

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13 The exchange rate in London is £1 = €1.15

The exchange rate in Berlin is €1 = £0.88

Angela wants to change some pounds into euros.

In which of these cities would Angela get the most euros?
You must show your working.

BERLIN

€   £

1   0.88
x   ✕   1

$0.88x = 1$

$x = \dfrac{1}{0.88}$

$= 1.14$

In Berlin £1 = €1.14

She would get the most euros in London.

(Total for question 13 is 3 marks)

14 Frank is travelling from the USA to Germany.

Frank wants to book flights which cost $710 and a hotel which costs €45 per night for 12 nights.

The exchange rates are as follows:

$$£1 = €1.14$$
$$\$1 = €0.85$$

Frank can spend no more than £1000
Work out if Frank is able to book the flights and the hotel.

FLIGHTS

$$\begin{array}{cc} \$ & € \\ 1 & 0.85 \\ 710 & \times \quad x \end{array}$$

$$x = 710 \times 0.85$$
$$= €603.50$$

$$€45 \times 12 = €540$$
$$(HOTEL)$$

$$603.50 + 540 = 1143.50$$

$$\begin{array}{cc} £ & € \\ 1 & 1.14 \\ x & \times \quad 1143.50 \end{array}$$

$$1.14x = 1143.50$$
$$x = \frac{1143.50}{1.14}$$
$$= £1003.07$$

No.