



# Money Problems

## Answers

1

### Sample B Foundation Calc Paper 3

- 12 Ibrar buys 3 kg of apples.  
He also buys 0.4 kg of mushrooms.  
The total cost is £6.93

1 kg of apples cost £1.95

Work out the cost of 1 kg of mushrooms.

$$\begin{aligned} 1 \text{ kg cost } & \pounds 1.95 \\ 3 \text{ kg costs } & 1.95 \times 3 \\ & = \pounds 5.85 \quad \textcircled{1} \end{aligned}$$

$$\pounds 6.93 - \pounds 5.85 = \pounds 1.08$$

$$0.4 \text{ kg} = \pounds 1.08$$

$$1 \text{ kg} = \frac{1.08}{0.4} = \pounds 2.70$$

①

①

£ .....

(Total for Question 12 is 3 marks)

## Sample A Foundation Non-Calc Paper 1

- 16 Sam buys 20 boxes of oranges.  
There are 25 oranges in each box.

Each boxes of oranges costs £7

Sam sells  $\frac{2}{5}$  of the oranges he bought.

He sells each of these oranges for 40p.

He then sells each of the remaining oranges at 3 oranges for 50p.

Did Sam make a profit or did Sam make a loss?  
You must show working to justify your answer.

$$20 \text{ boxes} \times 25 = 500 \text{ oranges}$$

$$20 \times 7 = \text{£}40 \text{ paid } \textcircled{1}$$

$$\frac{2}{5} \text{ of } 500 = 2 \times 100 = 200 \text{ oranges}$$

at 40p each

$$200 \times 40 = \text{£}8000 \textcircled{1}$$

$$\text{Oranges left } 500 - 200 = 300$$

$$3 \text{ oranges for } 50\text{p} \quad 300 \div 3 = 100$$

$$100 \times 50\text{p} = \text{£}50.00 \textcircled{1}$$

$$\text{Total } \text{£}80 + \text{£}50 = \text{£}130 \textcircled{1}$$

He paid £40 and sold them for £130

He made a £10 loss  $\textcircled{1}$

## June 2017 Foundation Calc Paper 3

- 14 Andy went on holiday to Canada.

His flights cost a total of £1500

Andy stayed for 14 nights.

His hotel room cost \$196 per night.

Andy used wifi for 12 days.

Wifi cost \$5 per day.

The exchange rate was \$1.90 to £1

- (a) Work out the total cost of the flights, the hotel room and wifi.

Give your answer in pounds.

$$\begin{array}{r}
 \text{Flight} = \pounds 1500 \\
 \text{Hotel} = \pounds 1444 \cdot 21052632 \\
 \text{Wifi} = \pounds 31 \cdot 5789473684 \\
 \hline
 \text{Total} = \pounds 2975.78947369 \\
 = \pounds 2975.79 \\
 \hline
 \text{①}
 \end{array}$$

$$\begin{array}{r}
 \text{hotel} = 14 \times 196 \\
 = 2744 \$ \text{ ①} \\
 = \frac{2744}{1.90} \text{ ①} \\
 = 1444 \cdot 21052632 \\
 \text{Wifi } 12 \times 5 \text{ ①} \\
 = 60 \$ \\
 \frac{60}{1.9} = 31.578947 \\
 \quad \quad \quad 3634
 \end{array}$$

£ \_\_\_\_\_

(5)

- (b) If there were fewer dollars to £1, what effect would this have on the total cost, in pounds, of Andy's holiday?

The hotel and Wifi would be more expensive.

(1)

(Total for Question 14 is 6 marks)