



Here are the ticket prices for entry to a museum. Shamus takes his family to the museum. He gets tickets for

2 adults,  
3 children,  
1 senior.

Shamus pays the least possible amount of money for the tickets. He pays with three £20 notes. How much change should he get?

**Ticket prices**

Adult ticket £12

Child ticket £7

Senior ticket £8

Family ticket (2 adult tickets and 2 child tickets) £30

**(Total 4 marks)**

1 x family ticket =	£30.00	£60.00
1 x child ticket =	£ 7.00	£45.00 -
1 x senior ticket =	£ 8.00 +	<hr/>
	<hr/>	£ 15.00
	<hr/>	

Shamus should receive £15.00 change.

The table gives information about the costs of posting parcels. Umar has to post some parcels. He has to post:

- 3 parcels with a weight of 6 kg each
- 1 parcel with a weight of 10 kg
- 1 parcel with a weight of 3 kg
- 1 parcel with a weight of 1.2 kg

Umar has £55 to spend on posting the parcels.

Can he post all the parcels?

Maximum weight of a parcel	Cost
2 kg	£4.41
4 kg	£7.06
6 kg	£9.58
8 kg	£11.74
10 kg	£12.61
20 kg	£14.69

(Total 4 marks)

$$\begin{array}{r}
 3 \times \text{£}9.58 = \text{£}28.74 \\
 1 \times \text{£}12.61 = \text{£}12.61 \\
 1 \times \text{£}7.06 = \text{£} 7.06 \\
 1 \times \text{£}4.41 = \text{£} 4.41 + \\
 \hline
 \text{£}52.82
 \end{array}$$

Umar does have enough money to post all the parcels.

Mr Jones uses 730 units of electricity. He pays:

24p per unit for the first 130 units of electricity he uses

13p per unit for the rest of the units of electricity he uses

Work out the total amount of money Mr Jones pays. You must show all your working. **(Total 4 marks)**

$$130 \times 24\text{p} = 3120\text{p} = \text{£}32.20$$

$$730 \text{ units} - 130 \text{ units} = 600 \text{ units}$$

$$600 \times 13\text{p} = 7800\text{p} = \text{£}78.00$$

$$\begin{array}{r} \text{£}32.20 \\ \text{£}78.00 + \\ \hline \text{£}110.20 \end{array}$$

The electricity will cost  
£110.20 in total.

Daniel buys

one loaf of bread costing £1.18  
 one tub of spread costing 94p  
 two jars of strawberry jam.

Daniel pays with a £5 note. He gets 30p change.

Work out the cost of one jar of strawberry jam.

$$\begin{array}{r}
 \text{£}1.18 \\
 \text{£}0.94 \quad + \\
 \hline
 \text{£}2.12 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{£}2.12 \\
 \text{£}0.30 \quad + \\
 \hline
 \text{£}2.42 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{£}5.00 \\
 \text{£}2.42 \quad + \\
 \hline
 \text{£}2.58 \\
 \hline
 \end{array}$$

$$\text{£}2.58 \div 3 = \text{£}0.86$$

£ ..... **0.86** .....  
 (Total for Question is 3 marks)

Lesson  
Objectives:

Developing students will be able to use written methods to calculate with money.

Secure students will be able to decipher information from worded questions.

Excelling students will be able to calculate profit and loss.

**Answers**

1. £3.25 change
2. £4.80 cheaper
3. Chris should chose Quick mix (£41.10 is cheaper than £44.00)
4. Joanna can save £4.45
5. Becky should buy from Fred's Furniture (£312 is cheaper than £320 or £330)
6. Miss Martins gives £1400 to charity
7. Sandeep and friends should go on the tram (£14.00 is less that £14.20)
8. Jo has an overall loss of £10

**Keywords**

Money, pounds, pence, profit, loss, increase, decrease, change