

Addition and Subtraction

Mark Scheme

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Addition and Subtraction
Grade Level	Grade 1/2
Booklet	Mark Scheme

Time Allowed: 54 minutes

Score: /45

Percentage: /100

Grade Boundaries:

1. There were 34 coins in a bag.
Jim took 15 coins out of the bag.
Rose put 17 coins into the bag.

How many coins are now in the bag?

$$\begin{array}{r} \overset{2}{\cancel{3}}4 \\ - 15 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 19 \\ + 17 \\ \hline 36 \end{array}$$

36

.....
(Total 2 marks)

2. 33 people were on a bus.
19 people got off.
15 people got on.

How many people are now on the bus?

$$\begin{array}{r} \overset{2}{\cancel{3}}3 \\ - 19 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 14 \\ + 15 \\ \hline 29 \end{array}$$

29

.....
(Total 2 marks)

3.

<i>Joe's Cafe</i>	
Prices	
Cup of tea	70p
Cup of coffee	85p
Can of cola	75p
Roll	£1.60
Sandwich	£1.35

Jonathan buys a can of cola and a roll.

(a) Work out the total cost.

$$\begin{array}{r} 1.60 \\ + 75 \\ \hline 2.35 \end{array}$$

£ 2.35

(1)

Sachin buys a cup of tea, a cup of coffee and 2 sandwiches.

(b) Work out the total cost.

$$\begin{array}{r} 70 \\ 85 \\ 135 \\ 135 \\ \hline 425 \end{array}$$

£ 4.25

(2)

Kim buys a can of cola, a cup of coffee and a sandwich.
She pays with a £5 note.

(c) Work out how much change she should get.

$$\begin{array}{r} 75 \\ 85 \\ 135 \\ \hline 295 \end{array} \quad \begin{array}{r} 5.00 \\ - 2.95 \\ \hline 2.05 \end{array}$$

£ 2.05

(3)

(Total 6 marks)

4. Chris buys

- 1 map costing £4.50
- 1 whistle costing £1.35
- 2 bars of chocolate costing £0.55 **each**

He pays with a £10 note.

Work out how much change he should get.

$$\begin{array}{r}
 4.50 \\
 1.35 \\
 55 \\
 55 \\
 \hline
 6.95
 \end{array}$$

$$\begin{array}{r}
 10.00 \\
 6.95 \\
 \hline
 3.05
 \end{array}$$

£ 3.05

(Total 3 marks)

5. Susan is decorating her bedroom.
She buys

- 1 paint brush costing £2.46
- 1 paint roller costing £3.08
- 2 tins of paint costing £5.95 **each**

She pays with a £20 note.

Work out how much change she should get.

$$\begin{array}{r}
 2.46 \\
 3.08 \\
 5.95 \\
 5.95 \\
 \hline
 17.44
 \end{array}$$

$$\begin{array}{r}
 20.00 \\
 17.44 \\
 \hline
 2.56
 \end{array}$$

£ 2.56

(Total 3 marks)

6. Rizwan buys

6 stamps at 25p each £1.50
 2 packs of postcards at 89p per pack £1.78
 1 pack of labels at £1.09 £1.09

He pays with a £10 note.

Work out how much change Rizwan should get.

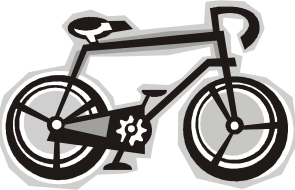
$$\begin{array}{r} 1.50 \\ 1.78 \\ 1.09 \\ \hline 4.37 \end{array}$$

$$\begin{array}{r} 10.00 \\ 4.37 \\ \hline 5.63 \end{array}$$

£ 5.63

(Total 3 marks)

7. Complete this bill.

Michael's Cycle Repairs			
			
Description	Number	Cost of each item	Total
Brake blocks	4	£4.12	£16.48
Brake cables	2	£5.68	£ 11.36
Pedals	2	£ 22.99	£45.98
Labour charge $1\frac{1}{2}$ hours at £12.00 an hour			£ 18.00
Total			£ 91.82

(Total 4 marks)

8.

Cinema tickets	
Adult ticket:	£8.65
Child ticket:	£4.90
Senior ticket:	£5.85

Tony buys one child ticket and one senior ticket.

(a) Work out the total cost.

$$\begin{array}{r} 490 \\ 585 \\ \hline 1075 \end{array}$$

$$£ 10.75$$

(1)

Stephanie buys adult tickets only.
The total cost is £60.55

(b) How many adult tickets does she buy?

$$\begin{array}{l} 8.65 \times 10 = 86.50 \\ 8.65 \times 5 = 43.25 \\ 8.65 \times 2 = 17.30 \\ \quad \times 7 = 60.55 \\ \hline 7 \end{array}$$

(2)

Kamala buys one adult ticket and two child tickets.
She pays with a £20 note.

(c) How much change should she get?

$$\begin{array}{r} 8.65 \\ 4.90 \\ 4.90 \\ \hline 18.45 \end{array}$$

$$\begin{array}{r} 20.00 \\ - 18.45 \\ \hline \end{array}$$

$$£ 1.55$$

(3)

(Total 6 marks)

9. Farah buys

2 pens at 84p each 1.68
 3 folders at £1.35 each 4.05
 1 pencil case at £1.49 1.49

She pays with a £10 note.

Work out how much change Farah should get from £10.

$$\begin{array}{r} 168 \\ 405 \\ 149 \\ \hline 722 \end{array}$$

$$\begin{array}{r} 1000 \\ - 722 \\ \hline \end{array}$$

£ 2.78

(Total 3 marks)

10. Mrs Adams bought cinema tickets for 4 adults and their children.

An adult ticket costs £5 $5 \times 4 = 20$

A child ticket costs £4

Mrs Adams paid a total of £48

Work out the number of child tickets bought by Mrs Adams.

$$48 - 20 = 28$$

$$\frac{28}{4} = 7$$

7

(Total 3 marks)

11. Work out

$$7.6 - 4.83$$

$$\begin{array}{r} 7.60 \\ - 4.83 \\ \hline 2.77 \end{array}$$

2.77

(Total 3 mark)

12. Christine buys

a calculator costing £5.95
 a pencil case costing £1.62
 a ruler costing 25p
 two pens costing 48p each **96p**

She pays with a £10 note.

- (a) How much change should she get from her £10 note?

$$\begin{array}{r} 5.95 \\ 1.62 \\ 25 \\ 96 \\ \hline 8.78 \end{array}$$

$$\begin{array}{r} 1000 \\ - 878 \\ \hline \end{array}$$

£ 1.22

(3)

Christine needs 160 tiles for a room.
 Tiles are sold in boxes.
 There are 12 tiles in each box.

- (b) Work out the least number of boxes of tiles that Christine needs.

$$\begin{array}{l} 12 \times 12 = 144 \\ 12 \times 13 = 156 \\ 12 \times 14 = 168 \end{array}$$

14 boxes

(2)

Each box of tiles costs £12.20

- (c) Work out the **total** cost of the boxes of tiles that Christine needs.

$$1220 \times 14$$

$$\begin{array}{r} 122.00 \\ + 48.80 \\ \hline 170.80 \end{array}$$

$$\begin{array}{l} 12.20 \times 10 = 122.00 \\ 12.20 \times 2 = 24.40 \\ 12.20 \times 2 = 48.80 \end{array}$$

£ 170.80

(2)

(Total 7 marks)