1

[2005]
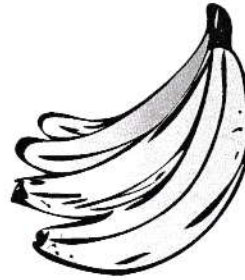
These are the prices of coconuts and bananas.

coconuts
78p each

bananas
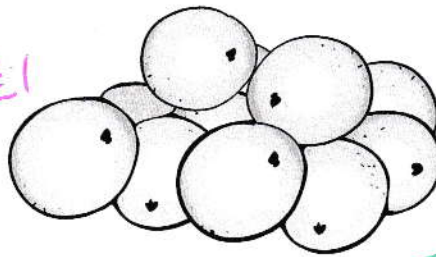£1.20 for 1kg

Josh buys **one coconut** and **half a kilogram** of **bananas**.

How much does he spend altogether?

```
    7 8
  + 6 0
  ─────
  1 3 8
```

£1·38

4 FOR £1

Oranges cost **25p** each.

1½ POUNDS!

How many oranges can Josh buy for **£1.50**?

$1\frac{1}{2} \times 4$

6

[3 marks]

2

Liam, Sarah and Amy buy lunch at a salad bar.

salad bar			
Salads		**Desserts**	
cheese	£1.20	banana	25p
egg	90p	apple pie	50p
tuna	£1.60	yogurt	35p

Liam has £2.50 to spend.

He buys a tuna salad and an apple pie. ⟶ £2·10

How much money has he got left?

$$2.50$$
$$- 2.10$$
$$£0.40$$

40 p

Sarah buys a cheese salad and a yogurt. ⟶ £1·55

Amy buys an egg salad. ⟶ 90p

How much more does Sarah pay than Amy?

Show your method

$$155$$
$$- \quad 90$$
$$65$$

65p

[3 marks]

NOTE THAT THE MULIPLICATION AND DIVISION IS COMPLICATED, SO I CHOSE AN 'INTUITIVE' METHOD!

Tickets for a school play cost £2.75 each.

Dev sold 23 tickets.

How much ticket money did Dev collect?

$$10 \rightarrow 27 \cdot 50$$
$$10 \rightarrow 27 \cdot 50$$
$$3 \rightarrow 8 \cdot 25$$
$$\overline{63 \cdot 25}$$

£63·25

$$\begin{array}{r} 275 \\ \times\ 3 \\ \hline 8\ 2\ 5 \\ {}^{2}\ \ ^{1} \end{array}$$

Holly collected £77 altogether from selling tickets.

How many tickets did she sell?

$$\begin{array}{r} 27 \cdot 50\ (10) \\ +\ 27 \cdot 50\ (10) \\ \hline 55 \cdot 00\ (20) \end{array}$$

$$\begin{array}{r} 55 \cdot 00\ (20) \\ +\ 27 \cdot 50\ (10) \\ \hline 82 \cdot 50\ (30) \end{array}$$

$$\begin{array}{r} 82 \cdot 50\ (30) \\ -\ 2 \cdot 75\ (1) \\ \hline 79 \cdot 75\ (29) \end{array}$$

$$\begin{array}{r} 79 \cdot 75\ (29) \\ -\ 2 \cdot 75\ (1) \\ \hline 77 \cdot 00\ (28) \end{array}$$

28

[2 marks]

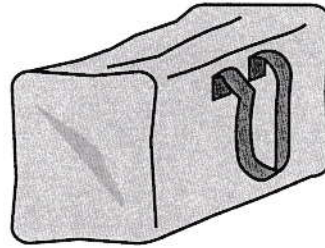Here are three bags in a shop.
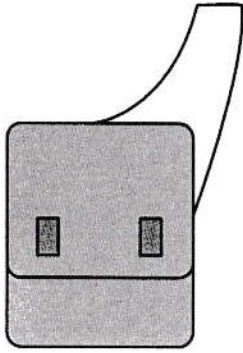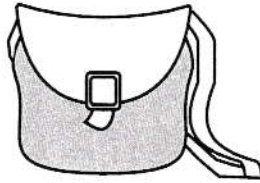
A	B	C
£11.50	£14.65	£16.50

How much does bag B cost to the nearest pound?

£ 15

Jamie buys bag A and bag C.

How much change does he get from £40?

Show your method

```
  1 6 5 0
+ 1 1 5 0
  2 8 0 0  = £28
    1
```
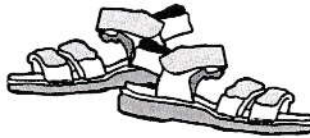
→ £40 − £28

£12

[3 marks]

These are the prices in a shoe shop.

boots
£45.50

sandals
£12.75

trainers
£34.99

How much **more** do the boots cost than the trainers?

$$
\begin{array}{r} 4550 \\ -3499 \end{array} \rightarrow \begin{array}{r} 4551 \\ -3500 \\ \hline 1051 \end{array}
$$

£10.51

Rosie buys a pair of trainers and a pair of sandals.

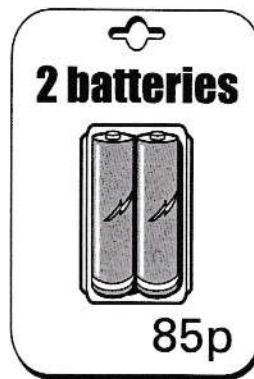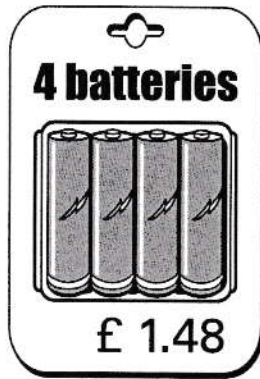How much change does she get from **£50**?

Show your method

$$
\begin{array}{r} 3499 \\ +1275 \\ \hline 4774 \end{array} = £47.74
$$

£50 − £47.74

£2.26

[3 marks]

A shop sells batteries in **packs of four** and **packs of two**.

4 batteries

£ 1.48

2 batteries

85p

Simon and Nick want two batteries each.

They buy a **pack of four** and share the cost equally.

How much does each pay?

$$\frac{1\,4\,8}{2} = \underline{74}$$

74p

Mary buys **2 packs of two** batteries.

Hamid buys **1 pack of four**.

How much **more** does Mary pay than Hamid?

<div style="writing-mode: vertical-rl">Show your method</div>

```
    8 5          ⁶ ¹
  ×   2        1 7 0
  ─────       -1 4 8
  1 7 0         2 2
    1
```

22p

[4 marks]

7

[2005]

A shop sells candles.

plain candles
35p each

star candles
60p each

stripe candles
85p each

Sapna buys **4** star candles and **2** stripe candles.

How much does she pay **altogether**?

```
STAR          STRIPE           TOTAL    2 4 0
                                        1 7 0
    6 0            8 5                   ‾‾‾‾‾
x   4          x   2                     4 1 0
‾‾‾‾‾          ‾‾‾‾‾                       1
2 4 0          1 7 0
‾‾‾‾‾          ‾‾‾‾‾            £4·10
```

Special offer
Buy 10 candles and get 50p off.

Josh buys **10** plain candles in the special offer.

How much does he pay for the 10 candles?

```
  35        350
x 10      -  50        £ 3·00
‾‾‾‾      ‾‾‾‾‾
 350        300
‾‾‾‾
```

[3 marks]

8

[2013]

Megan and Chen are washing cars.

Megan gets £39 and Chen gets £55

They share what they get **equally** between them.

How much does each of them get?

Show your method

$$
\begin{array}{r}
5\,5 \\
+\ 3\,9 \\
\hline
9\,4 \\
1
\end{array}
\qquad
\frac{94}{2} = \underline{\underline{47}}
$$

£47

[2 marks]

9

[2007]

A torch costs £7.65

Kate buys a torch and **two** batteries.

She pays £8.75 altogether.

How much does **one** battery cost?

Show your method

$$
\begin{array}{r}
8\,7\,5 \\
-\ 7\,6\,5 \\
\hline
1\,1\,0
\end{array}
\qquad
\frac{110}{2} = 55
$$

55p

[2 marks]

Cinema tickets cost **£3.65** each.

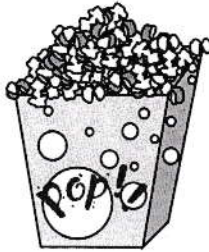Hannah buys **4 tickets**.

```
   365
 ×   4
 1 4 6 0
   2 2
```
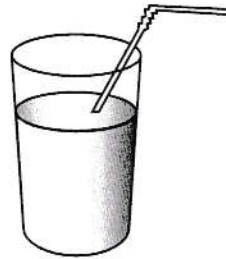
BIG SCREEN EN

£3.65

How much does Hannah pay?

£14·60

popcorn
£1.95

milkshake
£1.25

Nico buys a **box of popcorn** and **two milkshakes**. → £2·50

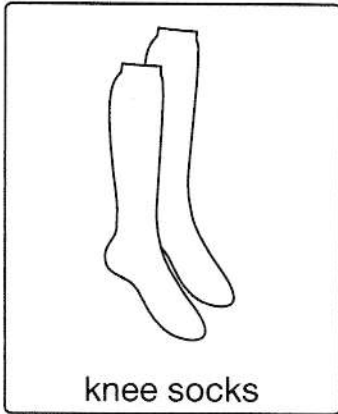How much does Nico spend **altogether**?

Show your method

```
   2 5 0
   1 9 5
   4 4 5
     1
```

£4·45

[3 marks]

A shop sells pairs of socks.
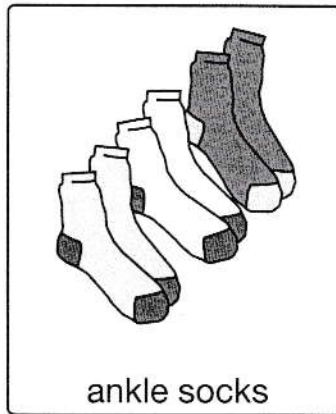
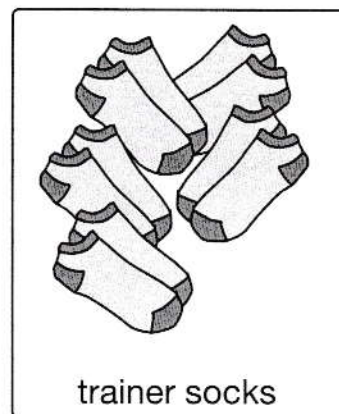| knee socks	ankle socks	trainer socks
1 pair for £5.45	**3 pairs** for £7.50	**5 pairs** for £8.50

Kirsty buys 1 pair of knee socks and 3 pairs of ankle socks.

She pays with a £20 note.

How much change does she get?

$$\begin{array}{r} 7\ 5\ 0 \\ +\ 5\ 4\ 5 \\ \hline 1\ 2\ 9\ 5 \end{array} = £12.95$$

£20 − £12.95

£7·05

Amy spends £25.50 on trainer socks.

How many **pairs** of trainer socks does she get?

$$\begin{array}{r} 8.50\quad (5) \\ +\ 8.50\quad (5) \\ \hline 17.00\quad (10) \end{array}$$

$$\begin{array}{r} 17.00\quad (10) \\ +\ 8.50\quad (5) \\ \hline 25.50\quad (15) \end{array}$$

15 pairs

[3 marks]

This is the cost to visit the waxworks.

| Adults | £8.50 |
| Children | £4.50 |

On Friday morning **12 adults** and **20 children** visit the waxworks.

How much do they pay altogether?

ADULTS   CHILDREN

    8 5 (10)   £4.50 × 20 = £9 × 10 = £90
+ 1 7 (2)
1 0 2 (12)   TOTAL = £192

Guide books cost **£1.50** each.

The waxworks sells **£24** worth of **guide books**.

How many guide books is this?

$$\frac{24}{1.50} = \frac{48}{3} = \underline{\underline{16}}$$
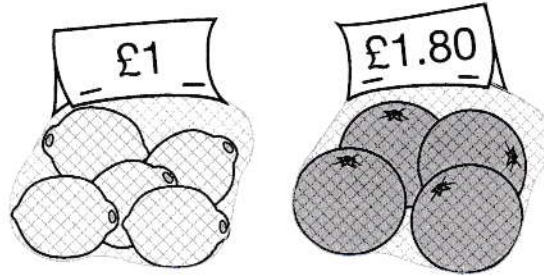
16

[3 marks]

13

A bag of 5 lemons costs £1

A bag of 4 oranges costs £1.80

£1

£1.80

How much **more** does one orange cost than one lemon?

Show your method

LEMONS

$\frac{100}{5} = 20p$

ORANGES

$\frac{180}{4} = \frac{90}{2} = 45p$

25p

[2 marks]

14

Chen and Megan each buy a sandwich.

Chen gets 5p change from £2 ⟶ £1·95

Megan gets £2.25 change from £5 ⟶ £2·75

How much **more** does Megan pay than Chen?

Show your method

```
  2 7 5
-  1 9 5
  0 8 0
```

80p

[2 marks]

15

[2009]

A shop sells food for birds.
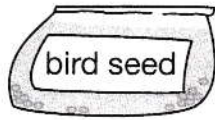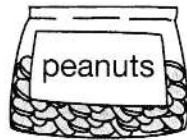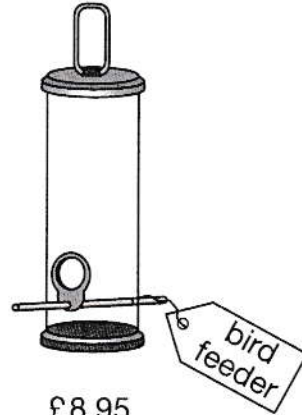

£3.79 for   £1.35 for   £8.95
a bag   a bag   each

Lara has £10 to spend on peanuts.

How many bags of peanuts can she get for £10?

1·35 (1)
2·70 (2)
5·40 (4)
9·45 (9)   [NOT ENOUGH FOR MORE!]

✏️ ⬚ 9

Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.

How much **more** money does he need?

Show your method

```
    3 7 9          1 5 1 6          £24·11
  ×     4        +   8 9 5
  1 5 1 6          2 4 1 1
    3 3              1 1  1
```

£4·11

[3 marks]

16

[2008]

A shop sells scarves and hats.
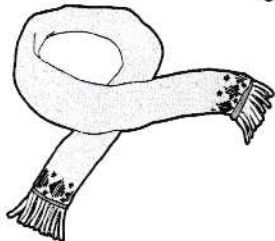
scarves £7.95 each

hats

£4.50

£6.50

£3.99

Ben buys one of the scarves and the £4.50 hat.

How much change does he get from £20?

$$
\begin{array}{r}
7\ 9\ 5 \\
4\ 5\ 0 \\
\hline
1\ 2\ 4\ 5 \\
\hline
1
\end{array}
= £12.45
$$

£20 − £12.45

£7.55

Emily buys **two** scarves and a hat.

What is the **most** she could pay?

$$
\begin{array}{r}
7\ 9\ 5 \\
\times\quad 2 \\
\hline
1\ 5\ 9\ 0 \\
\hline
1\ \ 1
\end{array}
$$

$$
\begin{array}{r}
1\ 5\ 9\ 0 \\
+\ \ 6\ 5\ 0 \\
\hline
2\ 2\ 4\ 0 \\
\hline
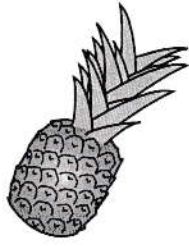1\ \ 1
\end{array}
$$

£22.40

[3 marks]

[2009]

Amir and Lara buy some fruit.
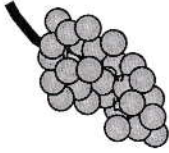
grapes
£2.50
for 1 kilogram

pineapples
£1.40
each
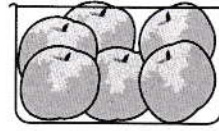
peaches
£1.99
for a box

Amir buys 2 pineapples and a box of peaches.

How much does he pay?

$$
\begin{array}{r}
140 \\
\times\ \ 2 \\
\hline
280
\end{array}
$$

$$
\begin{array}{r}
280 \\
199 \\
\hline
479
\end{array}
$$

£ 4.79

Lara buys half a kilogram of grapes and one pineapple.

£1.25

£1.40

How much change does she get from £5?

Show your method

$$
\begin{array}{r}
140 \\
+\ 125 \\
\hline
265
\end{array} = £2.65
$$

£5 - £2.65

£2.35

[3 marks]

200 people go to the school concert.

They pay **£3.50** each.

How much ticket money is collected?

£3·50 × 200

= £7 × 100

= £700

£ 700

Programmes cost **50p** each. ────➤ EACH £1 IS FOR 2 PROGRAMS

Selling programmes raises **£77.50**

How many **programmes** are sold?

Show your method

£77·50

77
× 2
─────
154 + 1 = 155

155

[3 marks]

These are the prices of cheese in a shop.

Cheddar cheese
82p for 100 grams

Edam cheese
66p for 100 grams

Cottage cheese
45p for 100 grams

£1.64

99p

Mina buys **200g of Cheddar** cheese and **150g of Edam** cheese.

How much does she pay altogether?

```
  1 6 4
    9 9
  ------
  2 6 3
  1   1
```

£2.63

Seb buys some cottage cheese for £1.35

How many grams of cottage cheese does he get?

$$\frac{135}{45} = 3$$

3 g

[3 marks]

Book Sale
Any 3 books for £14.50

£3.99   £5.99   £6.99

Lee bought these **three books** in the sale for **£14.50**

How much money did he save altogether compared to
the **full price** of the books?

Show your method

FULL PRICE

4 → £17 -3p
6
7
£17 ┘ = £16.97 ┘

1.697
1450
247

£2.47

[2 marks]

A shop sells jars of honey and honey dippers.

jar of honey

honey dipper

Chen bought **three** jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?

Show your method

$$
\begin{array}{r}
{}^{4}\cancel{5}\,{}^{13}\cancel{4}\,{}^{1}0 \\
-\quad 7\ 5 \\
\hline
4\ 6\ 5
\end{array}
\qquad
\begin{array}{r}
1\ 5\ 5 \\
3\,\overline{)4\,{}^{1}6\,{}^{1}5}
\end{array}
$$

£1·55

[2 marks]

22

[2016]

Miss Mills is making jam to sell at the school fair.

Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.

2ND

```
1 380
9 0 0 0
  790
1 1 1 7 0
```

Show your method

```
STRAWBERRIES      SUGAR        JARS
    7 5 0          7 9         6 9 0
  x   1 2        x 1 0       x     2
  1 5 0 0          7 9 0     1 3 8 0
  7 5 0 0
  9 0 0 0                    £111·70
```
1ST

[3 marks]

23

[2016]

Lara had some money.

She spent £1.25 on a drink.

She spent £1.60 on a sandwich. } £2·85

She has **three-quarters** of her money left, → SPENT ¼ !

How much money did Lara have to **start with**?

Show your method

$\dfrac{1}{4}$ IS   285

SO START AMOUNT = 285
                  x   4
                  1 1 40
                  3 2

£11·40

[2 marks]