MONEY CALCULATIONS 1

CONTENT DOMAIN REFERENCES:
M1, M9

KS2 SATS

PRACTICE QUESTIONS BY TOPIC

1 These are some prices in a fish and chip shop.

[2015]

Fish	£2.30	Peas	35p
Sausage	£1.80	Curry sauce	40p
Chips (small bag)	60p	Bread roll	30p
Chips (large bag)	90p	Pickled onion	28p

Alfie buys one fish, a large bag of chips and a pickled onion.

How much does he pay?

$$\begin{array}{r} 2.30 \\ 0.90 \\ +\ 0.28 \\ \hline 3.48 \end{array}$$

£ 3.48

Megan buys a sausage and a bread roll.

Chen buys a small bag of chips and a curry sauce.

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

Show your method

$$\begin{array}{r} 180 \\ +\ 30 \\ \hline 210 \end{array} \qquad \begin{array}{r} 60 \\ +\ 0 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 210 \\ -\ 100 \\ \hline \end{array}$$

£1.10

[3 marks]

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Questions compiled by:
@Maths4Everyone

2

[2017]

A group of friends earns £80 by washing cars.

They share the money **equally**.

They get £16 each.

How many friends are in the group?

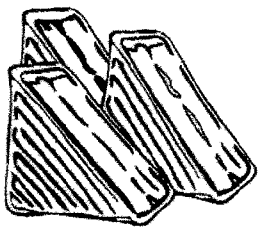
$\frac{80}{16} = \frac{40}{8} = \frac{20}{4} = \frac{5}{1}$

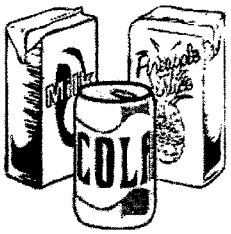
5

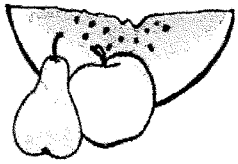
[1 mark]

3

[2004]







These are the prices of sandwiches, drinks and fruit.

Sandwiches		Drinks		Fruit	
cheese	£1.45	milk	55p	apple	15p
tuna	£1.70	cola	45p	pear	20p
salad	£1.20	juice	65p	melon	25p

Shereen buys a **tuna** sandwich, **milk** and a **pear**.

How much does she pay?

$$\begin{array}{r} 170 \\ +\ 75 \\ \hline 245 \end{array}$$

£2.45

Mike has 80p to spend on a **fruit** and a **drink**.

What **two** things can he buy for exactly **80p**?

MILK and MELON

OR JUICE and APPLE

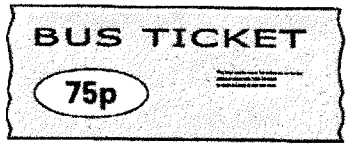
[2 marks]

4 Asif, Vicky and Nita go to town by bus.

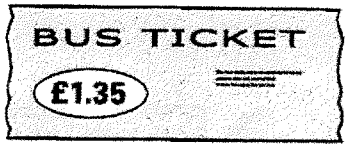
[2002]

This is what they pay.

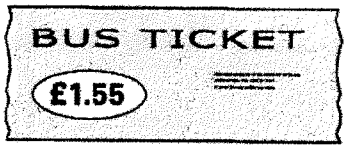
Asif



Vicky



Nita



How much **more** does **Nita** pay than **Asif**?

155
− 75
80

80p

Vicky then takes **another** bus from town to visit her auntie.

She pays **90p** on this bus.

How much has Vicky paid **altogether** for her two bus tickets?

135
+ 90
225
1

£2.25

[2 marks]

5

[2000]

Chris saves **50p** coins.

He has saved **45** of them.

How much money has Chris saved?

45 × 50p

[= 22·5 × £1]

£22·50

Michelle has saved **£8.40** in **20p** coins.

How many **20p coins** does Michelle have?

Show your method

$\frac{840}{20} = \frac{84}{2}$

$= 42$

42

[3 marks]

6

[2017]

The children at Farmfield School are collecting money for charity.

Their target is to collect £360

So far they have collected £57.73

+27p → £58

1ST

How much **more** money do they need to reach their target?

2ND

360

− 58

302

£302.27

[1 mark]

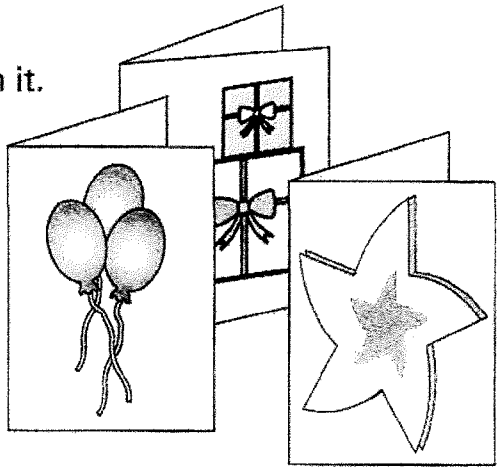
7

[2002]

A shop sells greetings cards.

Each card has a price code on it.

These are the codes.



code	price
AA	75p
BB	£1.15
CC	£1.55
DD	£1.70
EE	£1.99

Tina buys two cards.

One card has code **AA** on it.
The other card has code **DD** on it.

How much does Tina pay?

£2.45

170
+ 75
245

Omar buys a card. He pays with a £2 coin.

He gets 45p change.

What is the **code** on his card?

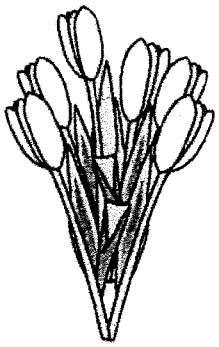
CC

CARD COSTS
£2 − 45p = £1.55

[2 marks]

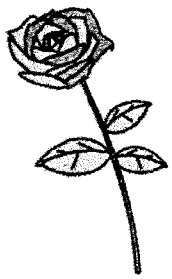
8 These are some prices in a flower shop.

[2010]



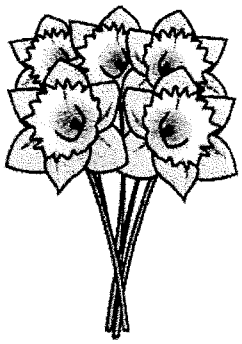
tulips

£1.20 for a bunch



roses

40p each



daffodils

55p for a bunch

How many roses can you buy for exactly £2?

$\frac{200}{40} = \frac{20}{4} = 5$ 5

Amy buys **one** bunch of tulips and **three** bunches of daffodils.

How much does she pay **altogether?**

Show your method

$55 \times 3 = 165$

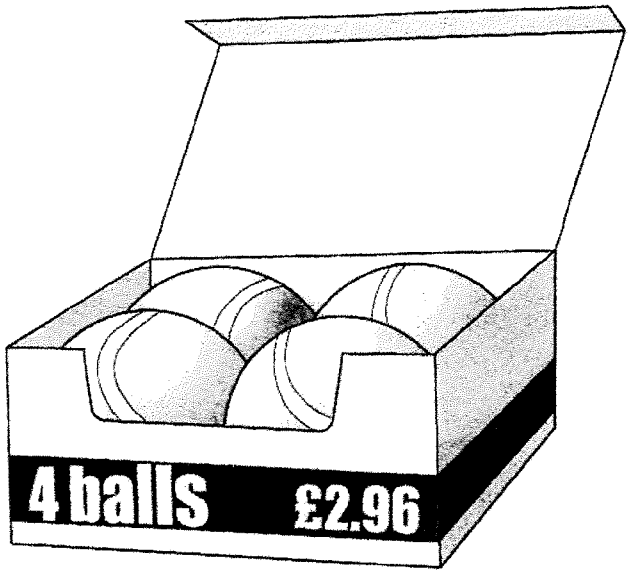
$165 + 120 = 285$

£2·85

[3 marks]

9

[2002]



A box of four balls costs **£2.96**

How much does each ball cost?

74p

$\frac{296}{4} = \frac{148}{2} = 74$

Dean and Alex buy **3 boxes** of balls between them.

Dean pays **£4.50**

How much must Alex pay?

Show your method

296 × 3 = 888

888 − 450 = 438

£4.38

[3 marks]

10 Olivia buys three packets of nuts.

[2016]

She pays with a £2 coin.

This is her change.

95p

What is the cost of **one** packet of nuts?

Show your method

COST OF THREE = £2 − 95p

= £1·05

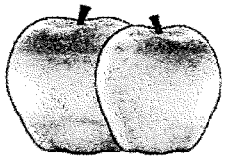
COST OF ONE = $\frac{105}{3}$

35p

[2 marks]

11 Liam buys **two** apples.

[2014]



He pays with a £1 coin and gets 64p change.

How much does **one** apple cost?

Show your method

$$\begin{array}{r} 100 \\ -\ 64 \\ \hline 36 \end{array} \rightarrow \frac{36}{2} = 18$$

18p

[1 mark]

12 [2013]

Books are 25p each at a car boot sale.

Alfie wants to buy 12 books.

He only has £2.35

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

Show your method

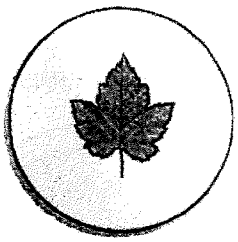
$$\begin{array}{r} 25 \\ \times\ 12 \\ \hline 50 \\ 250 \\ \hline 300 \end{array} \qquad \begin{array}{r} 300 \\ -\ 235 \\ \hline 65 \end{array}$$

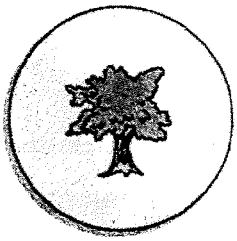
65p

[2 marks]

13 [2006]

Forest School sells badges for charity.





For each badge sold, £1.20 is given to a charity.

How much does the charity get when 12 badges are sold?

$$\begin{array}{r} 120 \\ \times\ 12 \\ \hline 240 \\ 1200 \\ \hline 1440 \end{array}$$

£14.40

If the charity got **£24**, how many badges were sold?

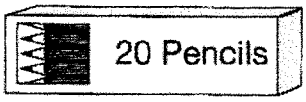
$\frac{24}{1.2} = \frac{240}{12} = 20$

20

[2 marks]

14 [2007]

50 children need two pencils each.



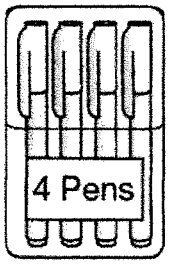
There are 20 pencils in a box.

How many boxes of pencils are needed?

$50 \times 2 = 100$

$\frac{100}{20} = \frac{10}{2} = 5$

5 **boxes**



50 children need one pen each.

Pens are sold in packs of 4

How many packs of pens need to be bought?

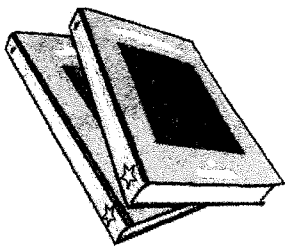
$\frac{50}{4} = \frac{25}{2} = 12.5$

13 **packs**

[2 marks]

15 [2013]

Alfie buys **two** books, each at the same price.



He pays with a £10 note and gets £2.30 change.

What is the cost of **one** book?

Show your method

$1000 - 230 = 770$

$\frac{770}{2} = 385$

£3.85

[2 marks]

16 These are the prices in a fish and chip shop.

[2003]

Fish		£1.95
Chips	small bag	55p
	large bag	70p
Peas		38p

Luke has **£3**

He wants to buy one fish, peas and two large bags of chips.

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

Show your method

$$\begin{array}{r} 195 \\ 140 \\ +\ 38 \\ \hline 373 \\ \hline \end{array} \qquad \begin{array}{r} 373 \\ -\ 300 \\ \hline 73 \\ \hline \end{array}$$

73p

[2 marks]

17 A shop sells three types of sunglasses.

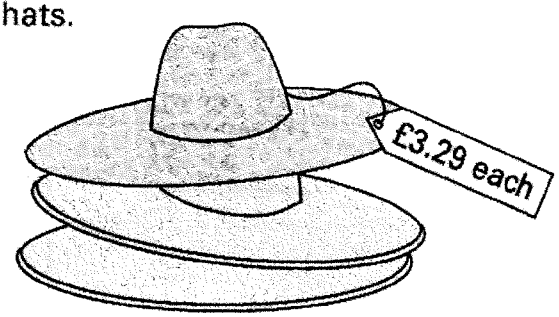
[2004]

What is the **difference** in price between the **most** expensive and **least** expensive sunglasses?

585 → 586
−299 → −300
286

£2·86

The shop also sells sun hats.



Ryan buys the **£4.69 sunglasses** and a **sun hat.**

How much change does he get from **£10?**

Show your method

469
+329
798
1

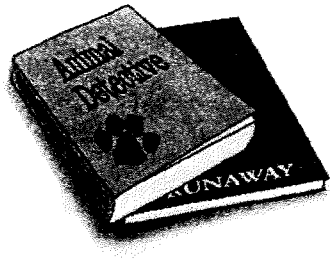
1000 → 1000
−798 → −798
202

£2·02

[3 marks]

18 [2011]

Dev and Joe each buy a book.



Dev pays with a £5 note and gets £1.05 change.

Joe's book costs £7

How much more does Joe's book cost than Dev's book?

Show your method

DEV

500
−105
395

700
−395
305

£3·05

[2 marks]

19 [2011]

Dev has a bag of 50p coins and Holly has a bag of 20p coins.

Dev's bag

Holly's bag

Both bags have the same amount of money in.

There are thirty 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?

Show your method

30
×50
1500

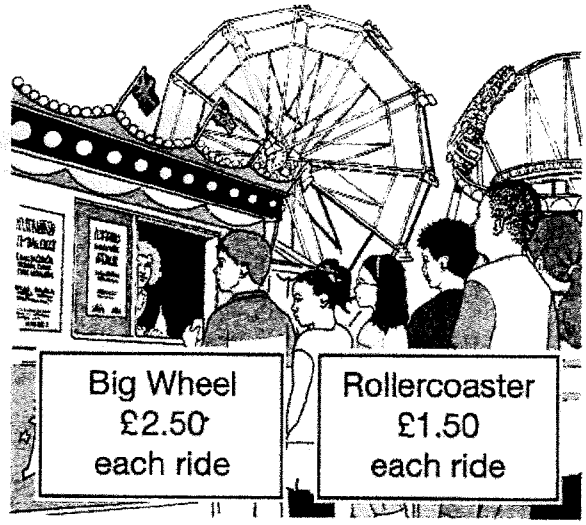
$\frac{1500}{20} = \frac{150}{2} = 75$

75

[2 marks]

20

[2010]



Liam spends £14 altogether on the Big Wheel and the Rollercoaster.

He goes on the Big Wheel twice. [- £5]

How many times does he go on the Rollercoaster?

Show your method

14
- 5
9

900 / 150 = 90 / 15 = 18 / 3 = 6

6

[2 marks]

21

[2012]

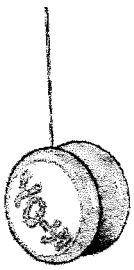
A school buys some yo-yos as prizes.

The yo-yos cost £4.25 each.

The school has **£40** to spend on prizes.

They buy as many yo-yos as they can.

How much money is left?



Show your method

10 YO-YOS COST £42.50 [TOO MUCH!]

425
× 9
3825

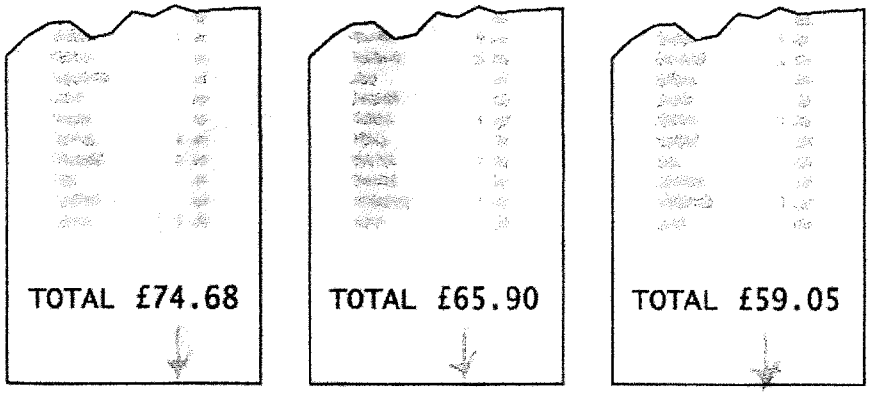
40.00
- 38.25
1.75

£1.75

[2 marks]

23 Here are three supermarket bills.

[2004]



Tom rounds each bill **to the nearest £10** and then adds them up.

What is the total amount that Tom gets?

70+70+60

£200

Mary adds up the three bills **exactly**.

What is the difference between her total and Tom's total?

Show your method

7468
6590
+5905
19963
1 1 1

200·00
199·63
0·37

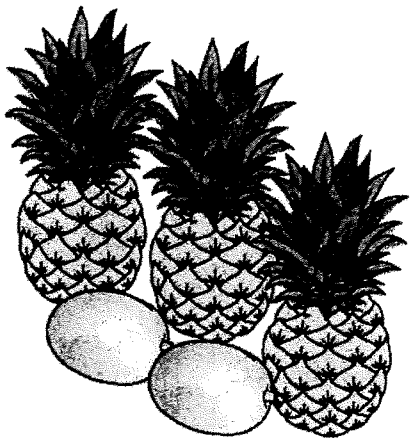
£0·37

[3 marks]

24 [2017]

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does **one** pineapple cost?

Show your method

TWO MANGOES

135
× 2
270

PINEAPPLE = 270 / 3 = 90

£0.90

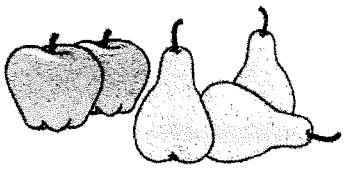
[2 marks]

25 [2012]

Seb bought 2 apples and 3 pairs.

He spent £1.59 altogether.

Apples cost 24p each.



How much does **one** pear cost?

Show your method

24
× 2
48

159
− 48
111

3 | 111 → 37

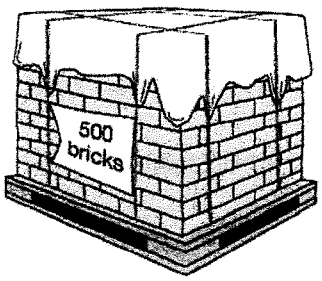
37p

[2 marks]

26 [2010]

A builder needs 7600 bricks to build a wall.

There are 500 bricks in a load.



How many loads must the builder buy?

$\frac{7600}{500} = \frac{76}{5}$

$= 15 + \text{SOMETHING}$

$= \underline{16}$ LOADS

15 r 1
5 | 76

16

The price of one load of 500 bricks is £230

What is the cost in pence of one brick?

Show your method

$\frac{23000}{500} = \frac{230}{5}$

$= \frac{460}{10}$

46p

[3 marks]

27

[2016S]

Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

Show your method

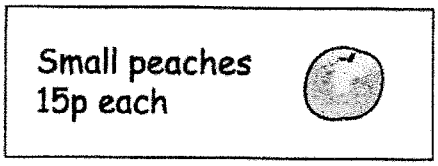
$$\begin{array}{r} 675 \\ \times\ 3 \\ \hline 2025 \\ \hline {\scriptstyle 2\ 1} \end{array} \rightarrow \begin{array}{r} 2025 \\ +\ 850 \\ \hline 2875 \end{array} \rightarrow 5\overline{)2875} = 575$$

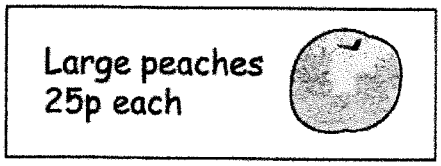
£5.75

[2 marks]

28

[2008]





Emily has £5 to spend on peaches.

She decides to buy only small peaches or only large peaches.

How many **more** small peaches than large peaches can she buy for £5?

Show your method

SMALL

$\frac{500}{15} = \frac{100}{3}$

$= 33.3\ldots$ [33!]

LARGE

$\frac{500}{25} = 20$

13

[2 marks]

29

[2017]

Amina posts three large letters.

The postage costs the same for each letter.

She pays with a £20 note.

Her change is £14.96

What is the cost of posting **one** letter?

Show your method

$$\begin{array}{r} 20.00 \\ -\ 14.96 \\ \hline 5.04 \end{array} \rightarrow \frac{504}{3} \rightarrow 3\overline{)5^{2}0^{2}4} = 168$$

$\boxed{£1.68}$

[2 marks]

30

[2007]

The cost for using a minibus is £1.36 for each kilometre.

8 friends go on a 114 kilometre journey.

They share the cost equally.

How much does each person pay?

Show your method

$$\begin{array}{r} 136 \\ \times\ 114 \\ \hline 5^{1}4^{2}4 \\ 1360 \\ 13600 \\ \hline 15504 \end{array} \rightarrow 8\overline{)15^{7}5^{3}0^{6}4} = 01938$$

$\boxed{£19.38}$

[2 marks]