



Week 8

Money Problems

Name: _____

Class: _____

Date: _____

Time: **35 minutes**

Marks: **35 marks**

Comments:

1

One gram of gold costs £32.94

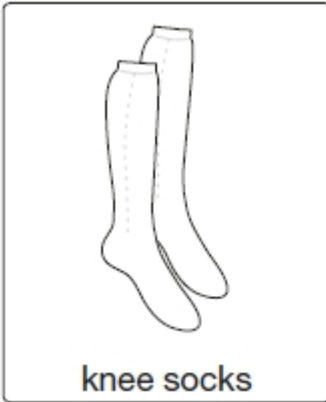
What is the cost of **half a kilogram** of gold?

Show your method

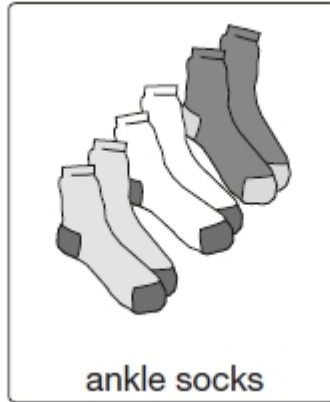
£

2 marks

A shop sells pairs of 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?

Show
your
method

£

2 marks

Amy spends £25.50 on trainer socks.

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

pairs

1 mark

3

Lara had some money.

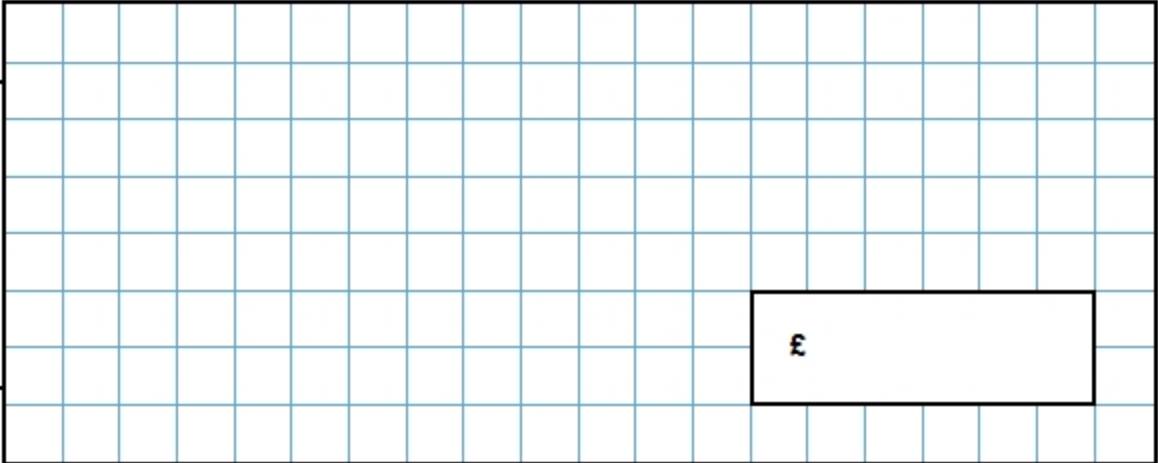
She spent £1.25 on a drink.

She spent £1.60 on a sandwich.

She has **three-quarters** of her money left.

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

Show your method



£

2 marks

4

Large pizzas cost £8.50 each.

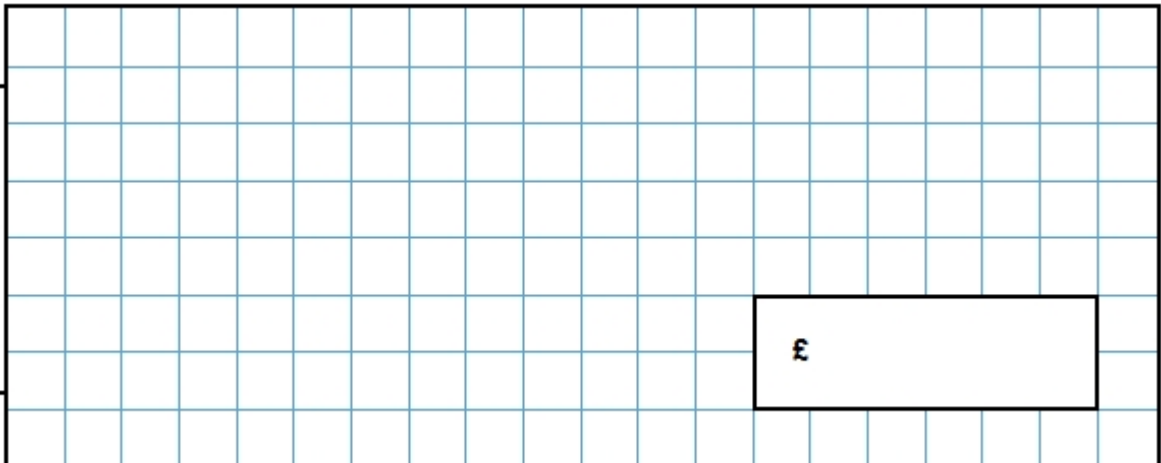
Small pizzas cost £6.75 each.

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



£

2 marks

5

The children at Farmfield School are collecting money for charity.

Their target is to collect £360

So far they have collected £57.73

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

£

1 mark

6

The table below shows five journeys a taxi driver made one day.

journey number	start time	number of passengers	distance	cost
1	9:15am	2	8 km	£7.50
2	9:40am	1	12 km	£9.90
3	10:30am	3	7 km	£7.60
4	10:50am	1	21 km	£15.50
5	12:10pm	4	15 km	£12.00

On journey number 5, the passengers shared the cost equally.

How much did **each** passenger pay?

£

1 mark

How many **passengers** made journeys of more than 10 km?

passengers

1 mark

The 12 km journey took 40 minutes.

What time did the taxi finish its journey?

am

1 mark

7

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

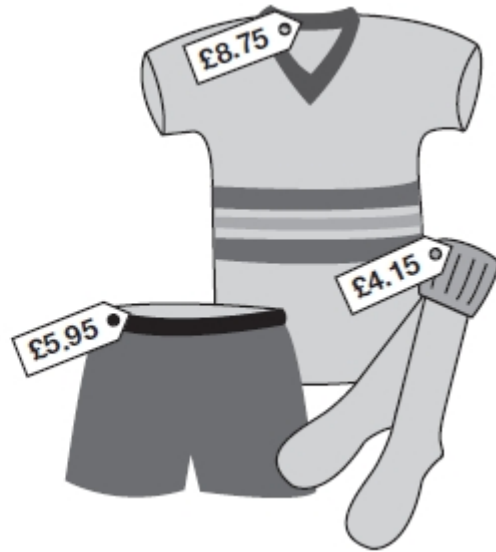
£

2 marks

8

The table shows the cost of a new football kit.

Item	Cost
Shirt	£8.75
Shorts (1 pair)	£5.95
Socks (1 pair)	£4.15



Altogether, how much does the complete football kit cost?

£

1 mark

9

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

£

2 marks

10

Chen and Megan each buy a sandwich.

Chen gets 5p change from £2

Megan gets £2.25 change from £5

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

Show
your
method

2 marks

11

These are some prices in a fish and chip shop.

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?

£

1 mark

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

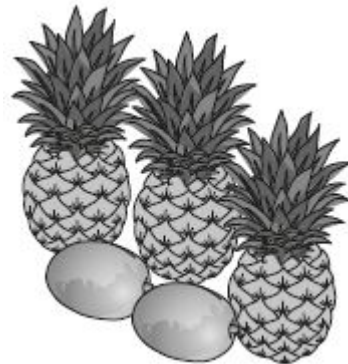
£

2 marks

12

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does **one** pineapple cost?

Show your method

£

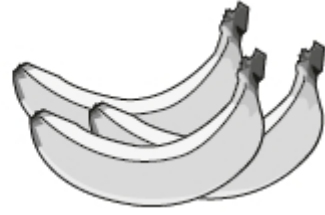
2 marks

13

A shop sells fruit.

Chen buys 2 apples and 3 bananas.

He pays £2.35



Megan buys 2 apples and 1 banana.

She pays £1.25



How much does **one** banana cost?

Show your method

£

2 marks

14

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.

Show
your
method

£

3 marks

15

Liam has five coins.

Three of the coins add up to **30p**.

Three of the coins add up to **40p**.

All five coins add up to £1

What are the coins that Liam has?

Diagram illustrating the structure of a vector space V over a field F . The vector space is represented as a sequence of five boxes, each labeled p , indicating that V is a direct sum of five copies of p .

1 mark

16

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

£

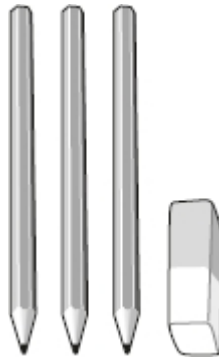
2 marks

17

6 pencils cost £1.68



3 pencils and 1 rubber cost **£1.09**



What is the cost of **1 rubber**?

Show
your
method

2 marks

Mark schemes

1

Award **TWO** marks for the correct answer of £16,470

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $\text{£}32.94 \times 1000 = \text{£}32,940$
 $\text{£}32,940 \div 2$

OR

- $\text{£}32.94 \times 500$
 $= \text{£}3294 \times 5$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

2

(a) Award **TWO** marks for the correct answer of £7.05

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- $\text{£}20 - \text{£}5.45 - \text{£}7.50 = \text{wrong answer}$

OR

- $\text{£}5.45 + \text{£}7.50 = \text{£}12.95$

$\text{£}20 - \text{£}12.95 = \text{wrong answer}$

*Accept for **ONE** mark £705 OR £705p as evidence of appropriate working.*

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

(b) 15

1

[3]

3

Award **TWO** marks for the correct answer of £11.40.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $\text{£}1.25 + \text{£}1.60 = \text{£}2.85$
 $\text{£}2.85 \times 4$

*Accept for **ONE** mark an answer of £1,140 OR £1,140p OR £11.4 as evidence of an appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

4Award **TWO** marks for the correct answer of £5.75If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $£6.75 \times 3 = £20.25$
 $£20.25 + £8.50 = £28.75$
 $£28.75 \div 5$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]**5**

£ 302.27

[1]**6**

(a) £3.00

1

(b) 6

1

(c) 10:20 am

The answer is a specific time.

1

[3]**7**Award **TWO** marks for the correct answer of £3.85If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$£10 - £2.30 = £7.70$$

$$£7.70 \div 2 = \text{wrong answer}$$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[2]**8**

£18.85

[1]**9**Award **TWO** marks for a correct answer of £47.If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$£39 + £55 = £94$$

$$£94 \div 2 = \text{wrong answer}$$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[2]

10

Award **TWO** marks for the correct answer of 80p **OR** £0.80

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■ $£2.00 - £0.05 = £1.95$

$£5.00 - £2.25 = £2.75$

$£2.75 - £1.95 = \text{wrong answer}$

*Accept for **ONE** mark £80 **OR** £80p **OR** 0.80p as evidence of appropriate working.*

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

11

(a) £3.48

1

(b) Award **TWO** marks for the correct answer of £1.10

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■ $£1.80 + 30p = £2.10$

$60p + 40p = £1.00$

$£2.10 - £1.00 = \text{wrong answer}$

*Accept for **ONE** mark £110 **OR** £110p as evidence of appropriate working.*

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[3]

12

Award **TWO** marks for the correct answer of £0.90

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

• $£1.35 \times 2 = £2.70$
 $£2.70 \div 3$

*Accept for **ONE** mark an answer of £90p **OR** £0.9 as evidence of an appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

13

Award **TWO** marks for the correct answer of 55p **OR** £0.55

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

■ $£2.35 - £1.25 = £1.10$

$£1.10 \div 2 =$ wrong answer

*Accept for **ONE** mark £55 **OR** £55p **OR** 0.55p as evidence of appropriate working.*

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2
U1

[2]

14

Award **THREE** marks for the correct answer of £111.70.

If the answer is incorrect, award **TWO** marks for:

- sight of £90 **AND** £7.90 **AND** £13.80 as all multiplication steps completed correctly.

*Accept for **TWO** marks, sight of 9,000p **AND** 790p **AND** 1,380p as all multiplication steps completed correctly.*

OR

evidence of an appropriate complete method with no more than one arithmetic error, e.g.

$$\begin{array}{r} 7.50 \\ \times 12 \\ \hline 88.80 \\ \text{(error)} \end{array} \quad \begin{array}{r} 79 \\ \times 10 \\ \hline 790 \end{array} \quad \begin{array}{r} 6.90 \\ \times 2 \\ \hline 13.80 \end{array}$$

$$88.80 + 7.90 + 13.80 = 110.50$$

Award **ONE** mark for evidence of an appropriate complete method.

*Answer need not be obtained for the award of **ONE** mark.*

A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.

TWO marks will be awarded if an appropriate complete method with the misread number is followed through correctly.

ONE mark will be awarded for:

- all multiplication steps completed correctly with the misread number.

OR

- evidence of an appropriate complete method with the misread number followed through correctly with no more than one arithmetic error.

Up to 3m

[3]

15

50p 20p 10p 10p 10p

Coins may be given in any order.

U1

[1]

16

Award **TWO** marks for the correct answer of £1.68

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $20 - 14.96 = 5.04$
 $5.04 \div 3$

*Accept for **ONE** mark an answer of £168 OR £168p as evidence of an appropriate method.*

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

17

Award **TWO** marks for the correct answer of 25p.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $168 \div 2 = 84$
 $109 - 84$

OR

- $168 \div 6 = 28$
 $3 \times 28 = 84$
 $109 - 84$

*Accept for **TWO** marks, an answer given in the acceptable notation.*

*Answer need not be obtained for the award of **ONE** mark.*

*Accept for **ONE** mark an answer of 0.25p OR £25p OR £25 as evidence of an appropriate method.*

Up to 2m

[2]