

Weight word problems

Q1.

Chen is cooking some pasta.

The recipe says he needs 350 grams of pasta for 4 people.



How many **kilograms** of pasta does he need for **12 people**?

2 marks

Q2.

Chen and Megan each have a parcel. Chen's parcel weighs 1  kg.

Megan's parcel weighs 1.2 kg

How many more **grams** does Chen's parcel weigh than Megan's parcel?

2 marks

Q3.

Lin has five blocks which are all the same.

She balances them on the scale with two weights.



Calculate the weight of **one** block.



2 marks

Q4.

Amir has three parcels.

Parcels A and B together weigh the same as parcel C.



The three parcels weigh 800 grams altogether.

Parcel A weighs 250g.

How much does parcel B weigh?



2 marks

Q5.

One toffee apple
needs:



1 stick,

100 g of sugar,

1 apple.



Children buy just enough sticks, sugar and apples to make **100** toffee apples.

They sell all 100 toffee apples for **£1 each**.

The profit goes to charity.

Work out how much money goes to charity.



3 marks

Q6.

A packet contains 1.5 kg of oats.



Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?

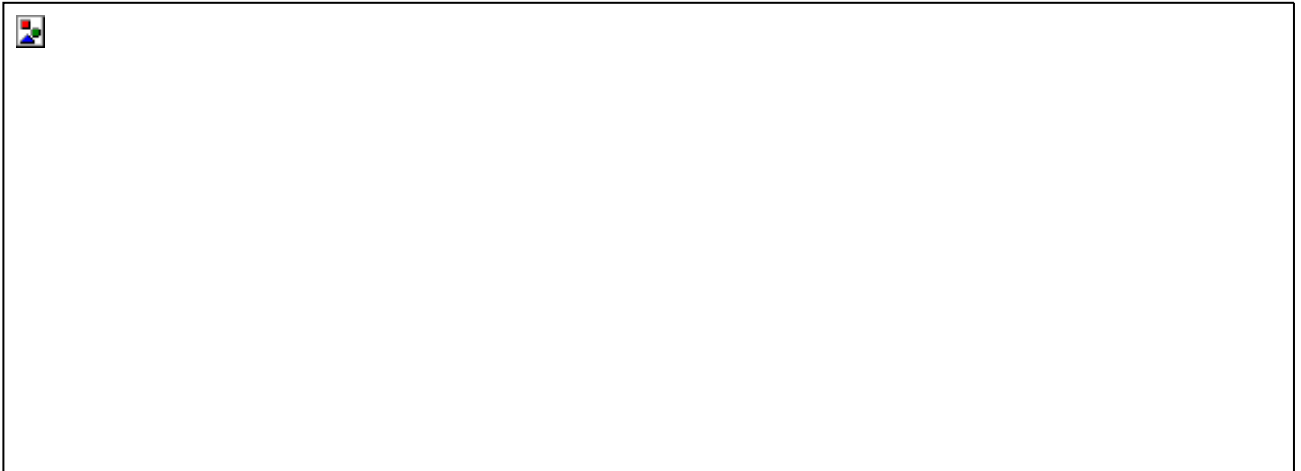


2 marks

Q7.

One gram of gold costs £32.94

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



2 marks

Q8.

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.



3 marks

M1. Award **TWO** marks for the correct answer of 1.05 kg.

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

■ $12 \div 4 = 3$

$350 \times 3 = 1050$

$1050 \div 1000 = \text{wrong answer}$

Do not accept 1050 g

Accept for **ONE** mark 10.5 or 105 as evidence of appropriate working.

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

Up to 2m

[2]

M2. Award **TWO** marks for the correct answer of 300

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



$$\text{kg} = 1500 \text{ g}$$

$$1.2 \text{ kg} = 1200 \text{ g}$$

$$1500 \text{ g} - 1200 \text{ g} = \text{wrong answer}$$

*Answer must be in grams for the award of **TWO** marks.*

Do not accept 0.3 kg.

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

Up to 2

[2]

M3. Award **TWO** marks for the correct answer of 60

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

$$800 - 500 = 300$$

$$300 \div 5$$

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

Up to 2 (U1)

[2]

M4. Award **TWO** marks for the correct answer of 150

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

$$800 \div 2 = 400$$

$$400 - 250 = \text{wrong answer}$$

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

Up to 2 (U1)

[2]

M5. Award **THREE** marks for the correct answer of £55.10

Award **TWO** marks for a complete correct method with one arithmetic error, eg

■	Sticks	£12.50
	Sugar	£ 9.99 (error)
	Apples	+ <u>£22.50</u>
	Total	£44.99
	Profit	£100.00
		- <u>£ 44.99</u>
		£ 55.01

OR

If the answer is incorrect, award **TWO** marks for evidence of a correct total for all the ingredients, eg

■	Sticks	£12.50
	Sugar	£ 9.90
	Apples	+ <u>£22.50</u>
	Total	£44.99

OR

Award **ONE** mark for sight of £12.50 **and** £9.90

Up to 3

[3]

M6.

Award **TWO** marks for the correct answer of 30.

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

- 1.5 kg = 1,500 g
1,500 ÷ 50

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

*Units must be converted correctly for the award of **ONE** mark.*

Up to 2m

[2]

M7. 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:

- $\begin{array}{l} £32.94 \times 1000 = £32,940 \\ £32,940 \div 2 \end{array}$

OR

- $\begin{array}{l} £32.94 \times 500 \\ = £3294 \times 5 \end{array}$

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

Up to 2

[2]

M8.

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.



$$88.80 + 7.90 + 13.80 = 110.50$$

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]