1. Here are the ingredients for chocolate ice cream.

cream	400 ml
milk	500 ml
egg yolks	4
chocolate	120 g
sugar	100 g

Stefan has only 300 ml of cream to make chocolate ice cream.

How much **chocolate** should he use?

Show your method

g

2 marks

2. This is Kirsty's recipe for breakfast cereal.

50 grams of oats

30 grams of raisins

40 grams of nuts

If she uses 125 grams of oats, how many grams of raisins does she need?

Show your method

g

2 marks

3. Seb had some cherries.

Every day he ate 10 cherries and gave 5 away.

After he gave the last 5 cherries away, he had eaten 40 cherries altogether.

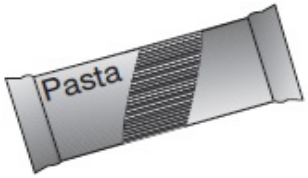
How many cherries did Seb have at the start?

Show your method

2 marks

4. 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**?

Show your method

kg

2 marks

5. Two numbers are in the ratio **4 : 5**

One of the numbers is **60**

There are two possible values for the other number.

What are the two possible values?

2 marks

6. These are the prices of cheese in a shop.

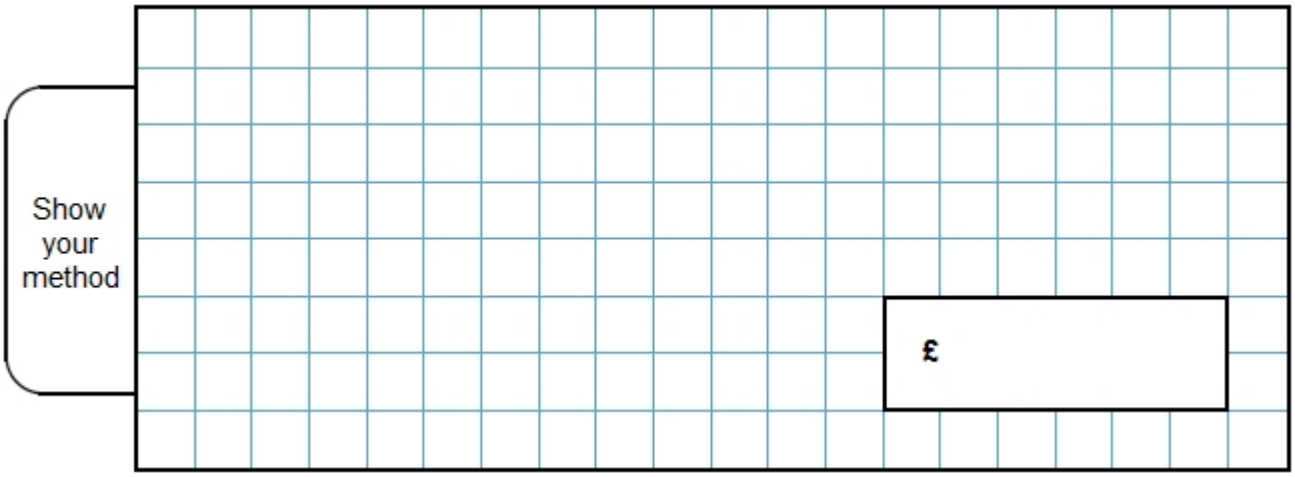
Cheddar cheese
82p for 100 grams

Edam cheese
66p for 100 grams

Cottage cheese
45p for 100 grams

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

How much does she pay altogether?



2 marks

Seb buys some cottage cheese for £1.35.

How many grams of cottage cheese does he get?

1 mark

7. A gardener plants tulip bulbs in a flower bed.

She plants 3 red bulbs for every 4 white bulbs.

She plants 60 red bulbs.

How many **white** bulbs does she plant?

Show your method

2 marks

8. Here is a recipe for fruit smoothies.

Recipe

10 strawberries
$\frac{1}{2}$ litre of orange juice
250ml yogurt
1 banana

Makes two smoothies

Stefan uses the recipe to make smoothies.
He uses 1 litre of yogurt.

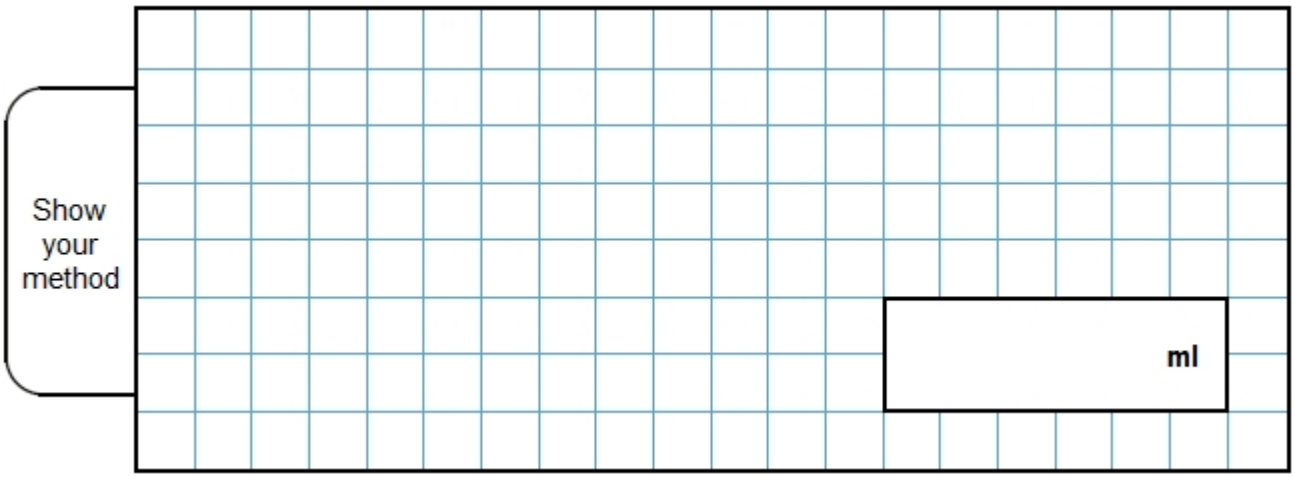
How many strawberries does he use?

1 mark

Amir uses the same recipe.

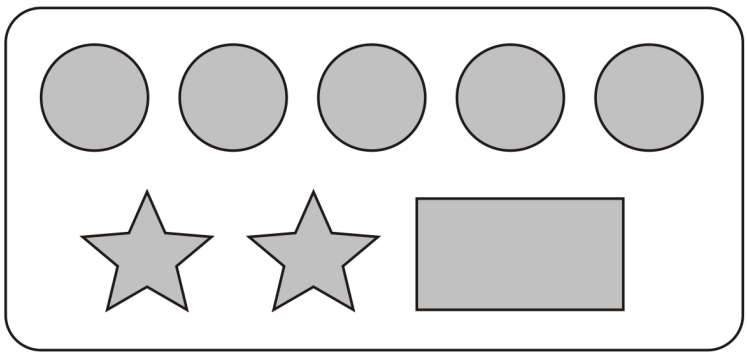
He wants to make 5 smoothies.
He has 1 litre of orange juice.

How many **more** millilitres of orange juice does he need?



2 marks

9. On a sheet of stickers there are 5 circles, 2 stars and one rectangle.



How many stickers are there altogether on **4** sheets?

1 mark

Nisha needs 55 circles.

How many sheets of stickers does she need?

1 mark

Ben has 10 sheets of stickers.

How many **more** circles than rectangles does he have?

1 mark

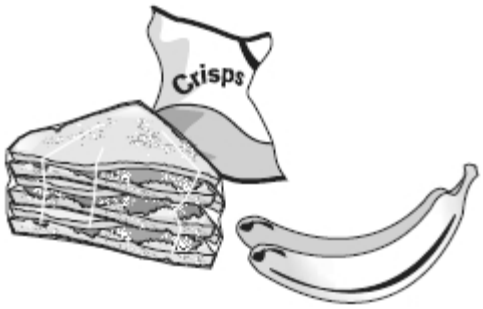
10. David and his friends prepare a picnic.

Each person at the picnic will get:

3 sandwiches

2 bananas

1 packet of crisps



The children pack **45** sandwiches.

How many **bananas** do they pack?

Show your method

bananas

2 marks

11.

Sapna makes a fruit salad using bananas, oranges and apples.

For every one banana, she uses 2 oranges and 3 apples.

Sapna uses 24 fruits.

How many **oranges** does she use?

Show your method

oranges

2 marks

12. Mari is the presenter of a weekly radio show.

She plays **five** new songs for every **two** old songs.

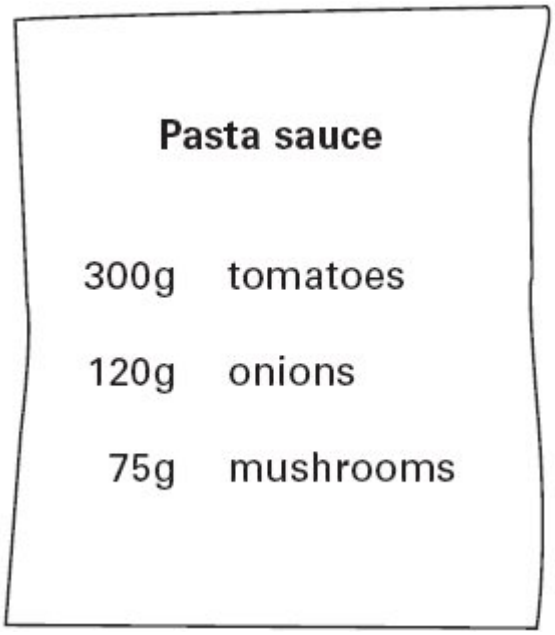
Last week she played 15 **new** songs.

How many songs did she play **altogether**?

Show your method

2 marks

13. Here is a recipe for pasta sauce.



Josh makes the pasta sauce using **900 g** of **tomatoes**.

What weight of **onions** should he use?

g

1 mark

Mark schemes

1. Award **TWO** marks for the correct answer of 90g.

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

- $300 \div 400 = \frac{3}{4}$

$\frac{3}{4} \times 120$

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

Up to 2

[2]

2. Award **TWO** marks for the correct answer of 75

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

- 125 ÷ 50 = 2.5

  2.5 × 30 = wrong answer

OR

- 50g oats 30g raisins

  25g oats 15g raisins (÷ 2)

  125g oats wrong answer (× 5)

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

Up to 2

[2]

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

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

- Ate 10, gave away 5

  Ate 40, gave away 20

  Ate 40 + 20 = wrong answer

- 40 ÷ 10 = 4

  4 × 5 = 20

  20 + 40 = wrong answer

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

Up to 2
U1

[2]

4. 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 ÷ 4 = 3

  350 × 3 = 1050

  1050 ÷ 1000 = 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]

5. 75 and 48 in either order

! Ratios given in each box, ie:

48 : 60 and 60 : 75

Condone, for 2m or 1m

2

or

Gives one correct value

1

[2]

6. (a) Award **TWO** marks for the correct answer of £2.63

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

82p × 2 = 164p

66p + 33p = 99p

164p + 99p = wrong answer

*Accept for **ONE** mark £263 **OR** £263p as evidence of appropriate working.*

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

Up to 2

(b) 300

1

[3]

7. Award **TWO** marks for the correct answer of 80

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

- 60 ÷ 3 = 20

  20 × 4

OR

- 3 red 4 white

  30 red 40 white

  60 red…

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

Up to 2

[2]

8. (a) 40

1

(b) Award **TWO** marks for the correct answer of 250

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

- 500 ÷ 2 × 5 = 1250
  1250 – 1000

OR

- $\frac{1}{2}$ litre 2 smoothies

  1 litre 4 smoothies

  $1\frac{1}{4}$ litres 5 smoothies

  $1 - 1 = \frac{1}{4}$

  $\frac{1}{4} \times 1000$

*Accept for **ONE** mark an answer of $\frac{1}{4}$ litre **OR** sight of $\frac{1}{4}$ litre with no evidence of an incorrect method.*

*Accept for **ONE** mark an answer of 1250 **OR** sight of 1250 with no evidence of an incorrect method.*

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

Up to 2

[3]

9. (a) 32

1

(b) 11

1

(c) 40

1

[3]

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

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

45 ÷ 3 = 15

15 × 2

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

Up to 2

[2]

11. Award **TWO** marks for the correct answer of 8

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

1 + 2 + 3 = 6

24 ÷ 6 = 4

4 × 2

OR

6 fruits 2 oranges

12 fruits 4 oranges

18 fruits 6 oranges

24 fruits wrong answer

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

Up to 2

[2]

12. Award **TWO** marks for the correct answer of 21

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

5 + 2 = 7
15 ÷ 5 × 7

OR

5 new 2 old
10 new 4 old
15 new 6 old

*Award **ONE** mark for an answer of 6 **OR** for 6 shown with no evidence of an incorrect method.*

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

Up to 2

[2]

13. 360

Accept 0.36 kg ***OR*** *.36 kg*

[1]