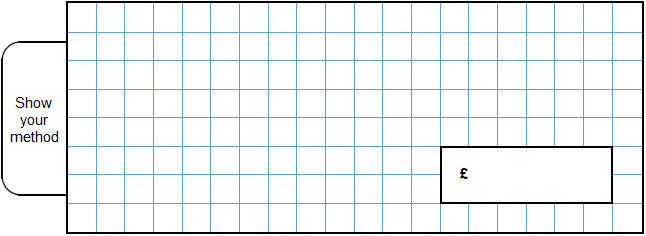
2020 consolidation – enjoy!

**Q1.**

One gram of gold costs £32.94

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



2 marks

**Q2.**

Here is part of the morning bus timetable from Winton to Yansley.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Winton** | 9:35 | 9:55 | 10:15 | 10:35 |
|  | **Ingham** | 9:45 | 10:05 | 10:25 | 10:45 |
|  | **Carston** | 10:01 | 10:21 | 10:41 | 11:01 |
|  | **Dubley** | 10:23 | 10:43 | 11:03 | 11:23 |
|  | **Yansley** | 10:55 | 11:15 | 11:35 | 11:55 |

How many minutes does the bus take to get from Ingham to Dubley?



1 mark

Megan is in Carston.

She wants to be in Yansley before 11:30

What is the time of the latest bus she can take from Carston?



1 mark

One morning, the 10:35 bus from Winton gets to Carston 3 minutes early.

What time does it get to Carston?



1 mark

**Q3.**

This table shows the weight of some fruits and vegetables.

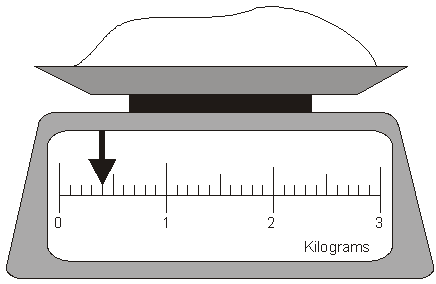
Complete the table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **grams** | **kilograms** |  |
|  | potatoes | 3500 | 3.5 |
|  | apples |  | 1.2 |
|  | grapes | 3500 |  |
|  | ginger |  | 0.03 |
|  |  | | |

2 marks

**Q4.**

Here is some flour on a weighing scale.



How many **grams** of flour are on the scale?



1 mark

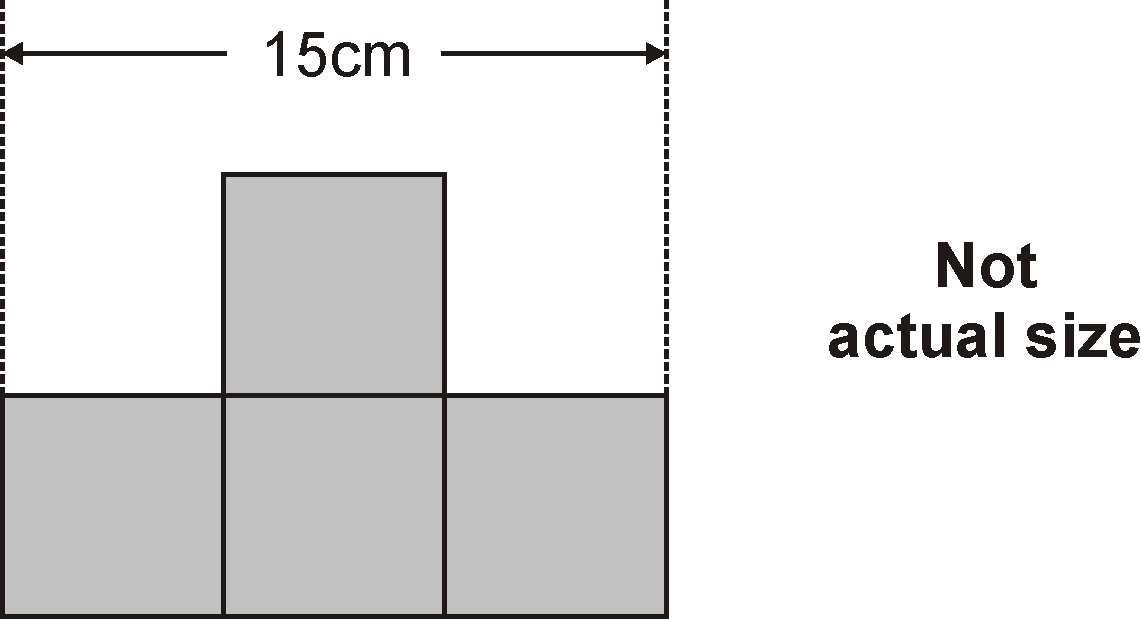
How much more flour must be added to the scale to make 1.6 kg?



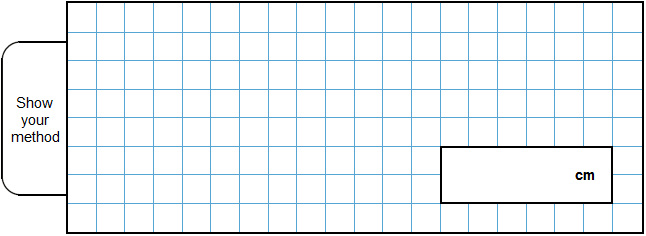
1 mark

**Q5.**

This shape is made from 4 shaded squares.



Calculate the perimeter of the shape.

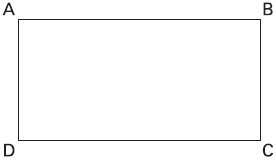


2 marks

**Q6.**

Rectangle **ABCD** has a perimeter of **24 centimetres**.

Sides AB and DC are **twice as long** as sides AD and BC.

                  **Not actual size**

Calculate the length of side **AD**.

Do **not** use a ruler.

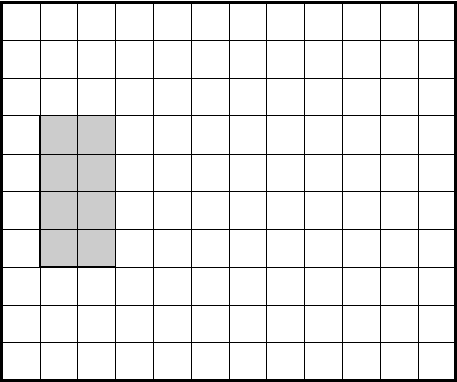


1 mark

**Q7.**

On the grid draw a **triangle** with the **same area** as the shaded rectangle.

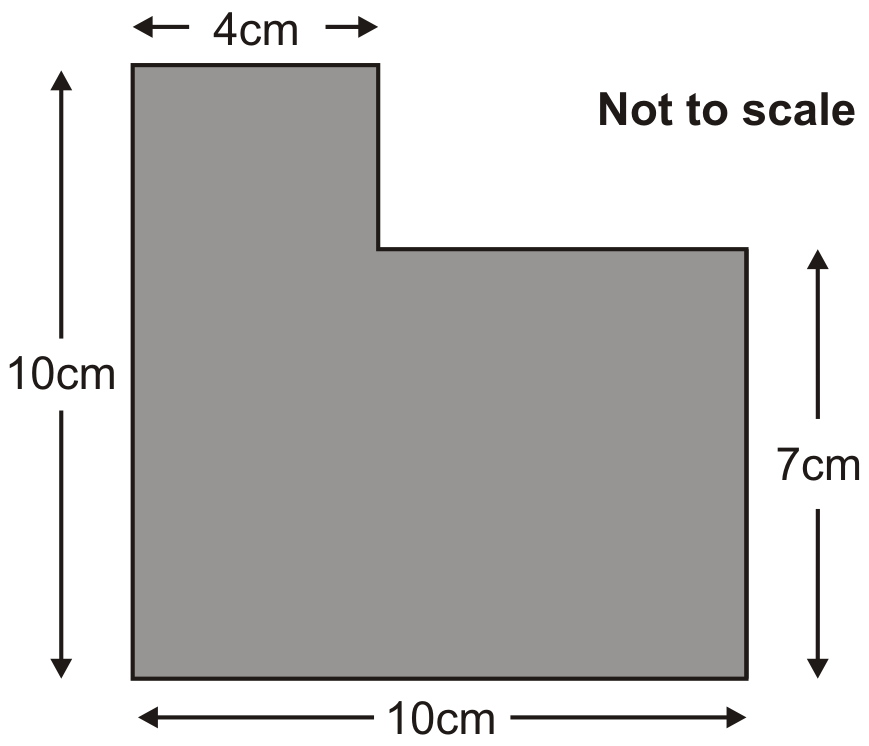
Use a ruler.

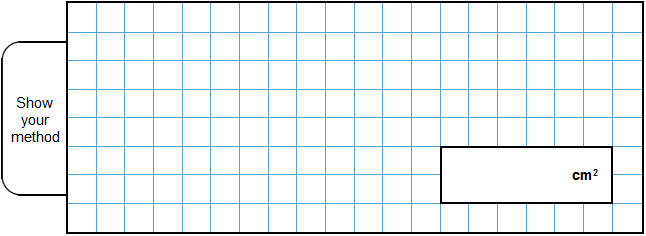


1 mark

**Q8.**

What is the **area** of this shape?





2 marks

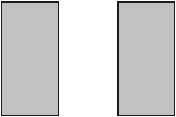
**Q9.**

The perimeter of a square is 72 centimetres.

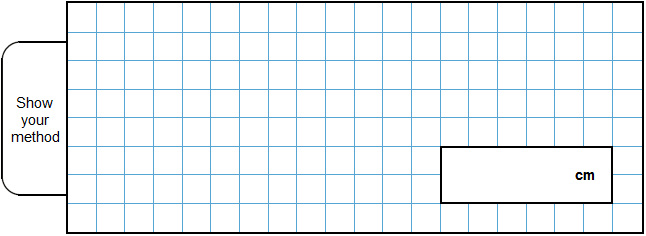


**Not actual size**

The square is cut in half to make two identical rectangles.



What is the perimeter of **one** rectangle?



2 marks

**Q10.**



Here is part of a train timetable.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Edinburgh | – | 09.35 | – | – | 13.35 | – | – |
|  | Glasgow | 09.15 | – | 11.15 | 13.15 | – | 13.45 | 15.15 |
|  | Stirling | 09.57 | – | 11.57 | 13.57 | – | 14.29 | 15.57 |
|  | Perth | 10.34 | 10.51 | 12.34 | 14.34 | 14.50 | 15.15 | 16.35 |
|  | Inverness | – | 13.10 | – | – | 17.05 | – | – |

How long does the first train from Edinburgh take to travel to Inverness?



1 mark

Ellen is at Glasgow station at 1.30pm.

She wants to travel to Perth.

She catches the next train.

At what time will she arrive in Perth?

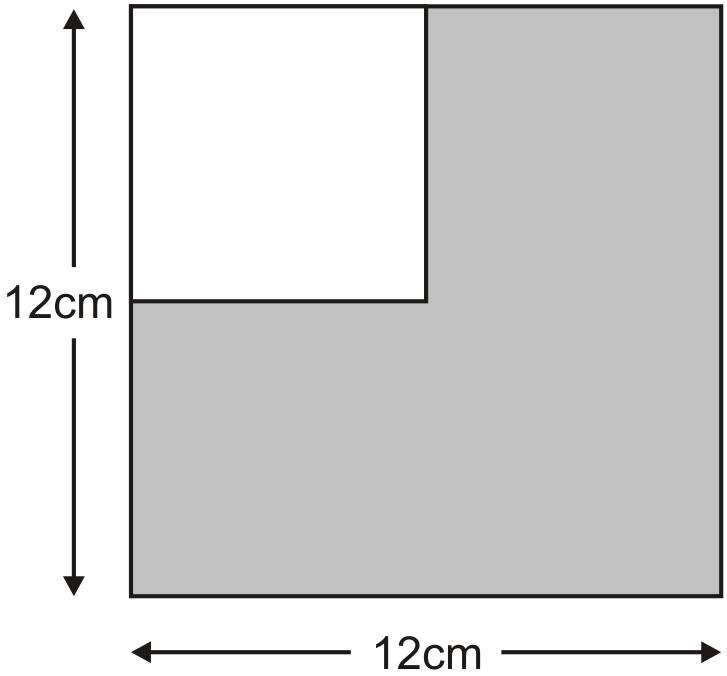


1 mark

**Q11.**

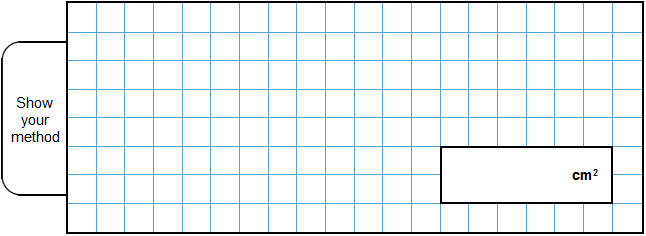
A white square is painted in one corner of a grey square.

Each side of the white square is **half** the length of a side of the grey square.



**Not actual size**

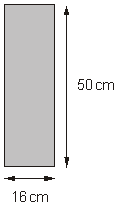
What is the **area** of the grey section?



**Q12.**

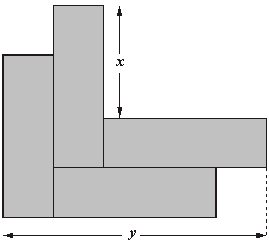
Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



**Not actual size**

She makes this design with four of the rectangles.



Work out the lengths *x* and *y*.



1 mark



1 mark

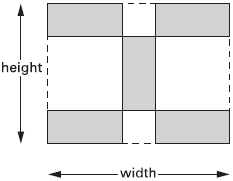
**Q13.**

Kim has some rectangular tiles.

Each one is **4 centimetres** by **9 centimetres**.



She makes a design with them.



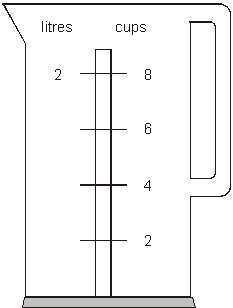
Calculate the **width** and **height** of her design.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | width = |  | Height = |  |

2 mark

**Q14.**

Nisha’s kettle holds 2 litres of water.



How many millilitres are equal to 1 cup?

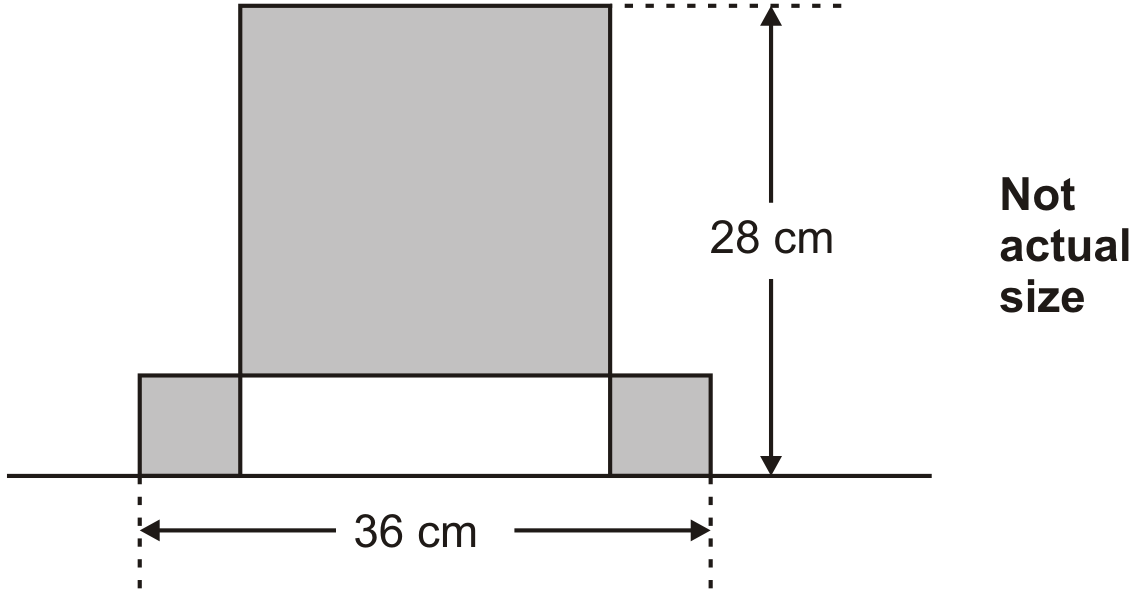


1 mark

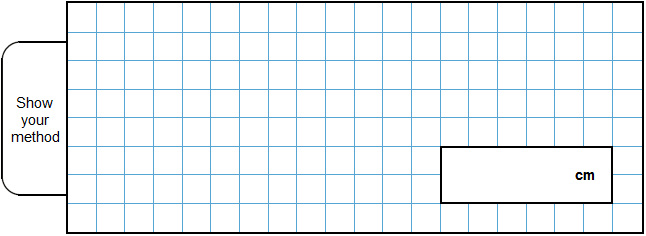
**Q15.**

This design has **one large square** and **two identical small squares**.

The design measures 36 centimetres by 28 centimetres.



Calculate the length of a side of the **large** square.



2 marks

**Q16.**

The following quadrilaterals all have a **perimeter of 36cm**.

Here is a table to show the length of each side.

Complete the table.

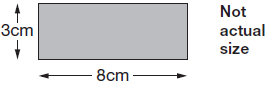
One quadrilateral is done for you.

|  |  |  |
| --- | --- | --- |
|  |  | Side lengths |
|  | square | 9cm            9cm            9cm            9cm |
|  | rectangle | 3cm |
|  | rhombus | 9cm |
|  | kite | 10cm |

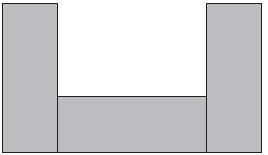
2 marks

**Q17.**

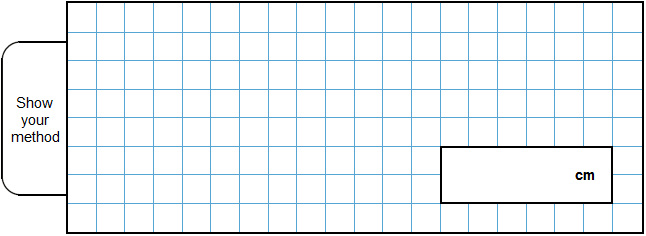
Alfie has some rectangles.



He makes this shape using three of the rectangles.



What is the **perimeter** of Alfie’s shape?

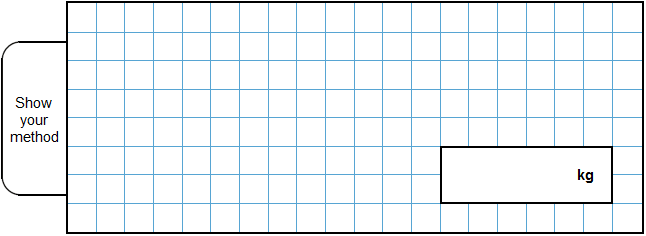


2 marks

**Q18.**

|  |  |
| --- | --- |
| Chen is cooking some pasta.  The recipe says he needs 350 grams of pasta for 4 people. |  |

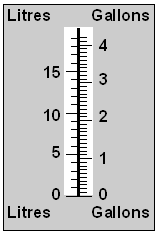
How many **kilograms** of pasta does he need for **12 people**?



2 marks

**Q19.**

At a petrol station there is a scale for converting litres and gallons.



Approximately how many **litres** are there in **3 gallons**?

Give your answer to the **nearest litre**.



1 mark

Approximately how many **gallons** are there in **7 litres**?

Give your answer to **1 decimal place.**

****

1 mark

**Q20.**

A spoonful is **5ml.**

****

How many spoonfuls can you get from this bottle?

1 mark

**M1.**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:

•        £32.94 × 1000 = £32,940  
£32,940 ÷ 2

**OR**

•        £32.94 × 500  
= £3294 × 5

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

**Up to 2**

**[2]**

**M2.**(a)     38

*The answer is a time interval.*

**1**

(b)     10:21

*The answer is a specific time.*

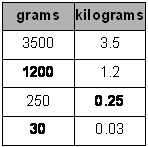
**1**

(c)     10:58

**1**

**[3]**

**M3.**          Award **TWO** marks for the table completed as shown:



          If the answer is incorrect, award **ONE** mark for two of the three numbers completed correctly.

*For 0.25, accept .25* ***OR  ***

**Up to 2**

**[2]**

**M4.**          (a)     400

*Answer must be in grams.*

**1**

(b)     1200 g **OR** 1.2 kg

**OR**

          for finding the correct difference between 1.6 kg and the answer given for (a).

*Accept 1200* ***OR*** *1.2* ***OR*** *1 kg 200 g*

**1**

**[2]**

**M5.**          Award **TWO** marks for the correct answer of 50

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

          15 ÷ 3 = 5

          5 × 10 = wrong answer

*Calculation must be performed for the award of* ***ONE*** *mark.*

**Up to 2 (U1)**

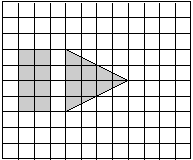
**[2]**

**M6.**          4

**U1**

**[1]**

**M7.**          Any triangle with an area of 8 cm2, eg

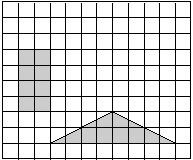


*Drawings must be accurate to within 2 mm of appropriate grid intersections.*

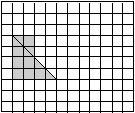
*The triangle need not be shaded and need not have vertices at grid junctions.*

*Do not penalise drawings done without a ruler, provided  
the intention is clear.*

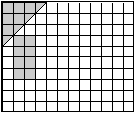
**OR**

****

*Accept drawings that overlap the given rectangle or use the edge of the grid, eg*

**

***OR***

******

**[1]**

**M8.**          Award **TWO** marks for the correct answer of 82

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

          (4 × 10) + (7 × 6)  
**OR**(10×10) – (3 × 6)

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

**Up to 2**

**[2]**

**M9.**          Award **TWO** marks for the correct answer of 54

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

•    72 ÷ 4 = 18  
18 ÷ 2 = 9  
(18 × 2) + (9 × 2)

**OR**

•    72 ÷ 4 × 3

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

**Up to 2 (U1)**

**[2]**

**M10.**          (a)     3 hours 35 minutes

*The answer is a time interval*

*(see guidance)*

**1**

(b)     15:15

*The answer is a specific time*

*(see guidance)*

*Accept quarter past three*

**1**

**[2]**

**M11.**          Award **TWO** marks for the correct answer of 108

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

12 × 12 = 144

 of 144

**OR**

(12 × 12) – (6 × 6)

**OR**

(12 × 12) + (6 × 6)

**OR**

(6 × 6) × 3

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

**Up to 2 (U1)**

**[2]**

**M12.**          (a)     34

**1**

(b)     82

**1**

**[2]**

**M13.**          (a)     width = 22

**1**

(b)     height = 17

*If the correct answers are transposed, award the mark for 16b only.*

**1**

**[2]**

**M14.**          250

***Do not*** *accept  litre.*

**[1]**

**M15.**          Award **TWO** marks for the correct answer of 20

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

          Small square = 36 – 28 = 8

          Large square = 28 – 8

                             = wrong answer

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

**Up to 2 (U1)**

**[2]**

**M16.**Completes all three rows correctly, eg:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| • | rectangle | 3cm | 3cm | 15cm | 15cm |
|  | rhombus | 9cm | 9cm | 9cm | 9cm |
|  | kite | 10cm | 10cm | 8cm | 8cm |

*! Measures*

*Accept Side lengths in each row may be given in any order*

*Accept correct values with cm omitted eg, for the rectangle:*

*•    15     3     15*

**2**

***or***

Completes two rows correctly

**1**

**[2]**

**M17.**Award **TWO** marks for the correct answer of 54

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

8 × 4 = 32

3 × 4 = 12

5 × 2 = 10

32 + 12 + 10 = wrong answer

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

**Up to 2**

**[2]**

**M18.**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]**

**M19.**          (a)     13 OR 14

**1**

(b)     1.5 OR 1.6   ***Do not*** *accept 1½*

**1**

**[2]**

**M20.**          75 (spoonfuls)

**[1]**