National curriculum tests

Key Stage 2

Mathematics

Practice Paper 3-2: reasoning

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				

Time: 40 minutes. No calculators allowed. 35 marks



Instructions

You may not use a calculator to answer any questions in this test.

Questions and answers

You have 40 minutes to complete this test.

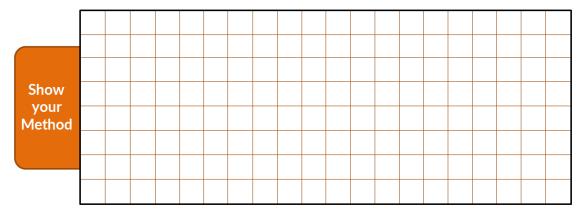
Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Do not write over any barcodes.

Some questions have a method box like this:



For these questions, you may get a mark for showing your method.

If you cannot do a question, go on to the next one.

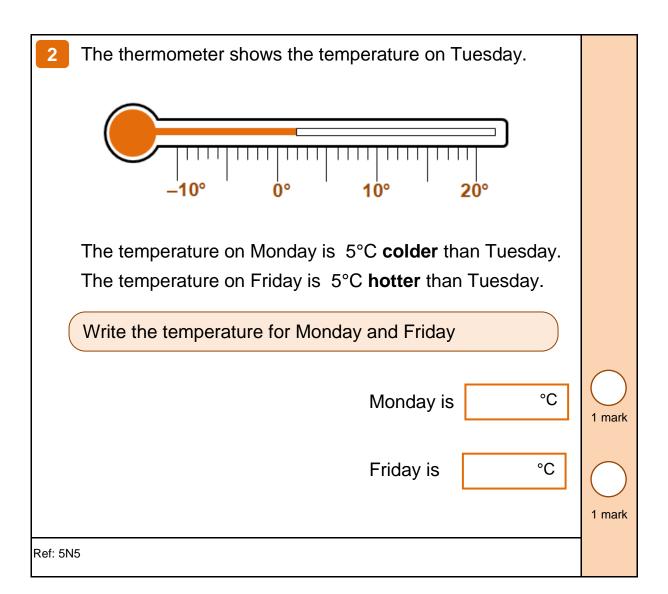
You can come back to it later, if you have time.

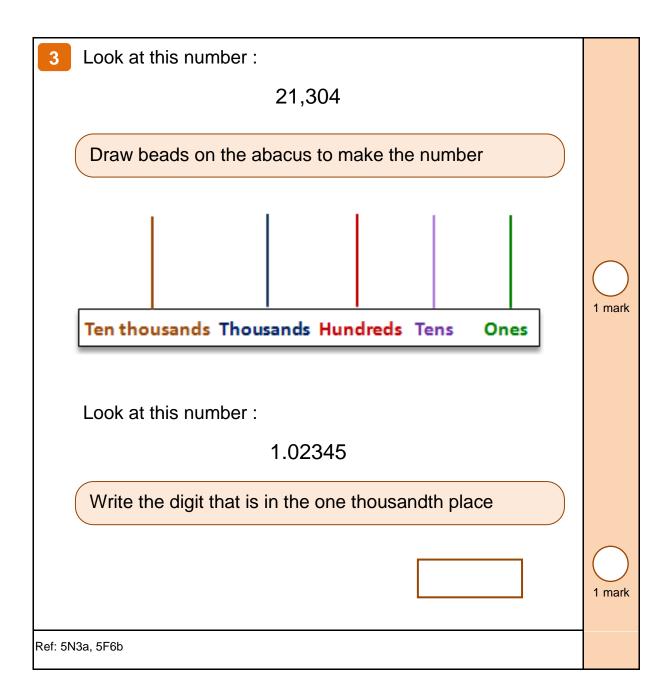
If you finish before the end, go back and check your work.

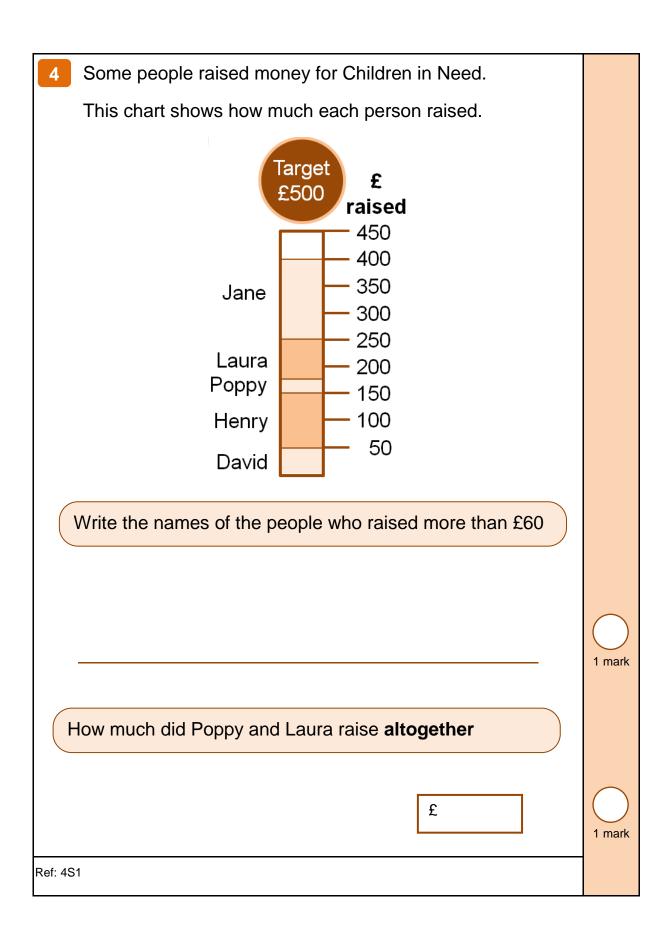
Marks

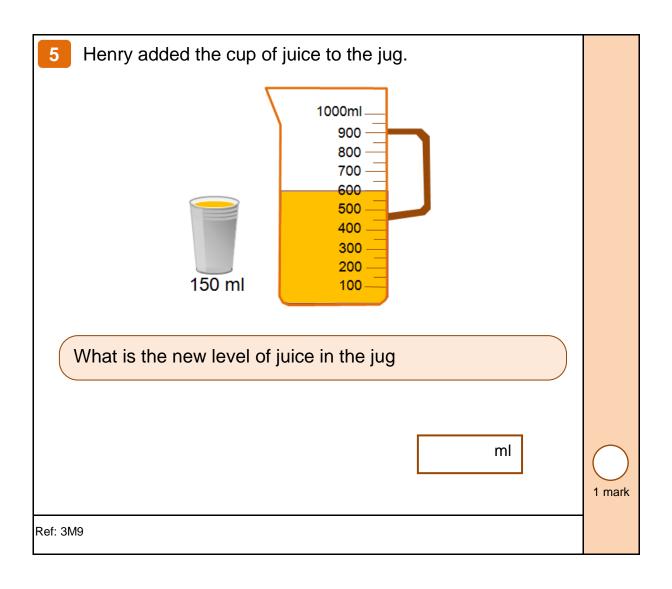
The number under each box at the side of the page tells you the maximum number of marks for each question.

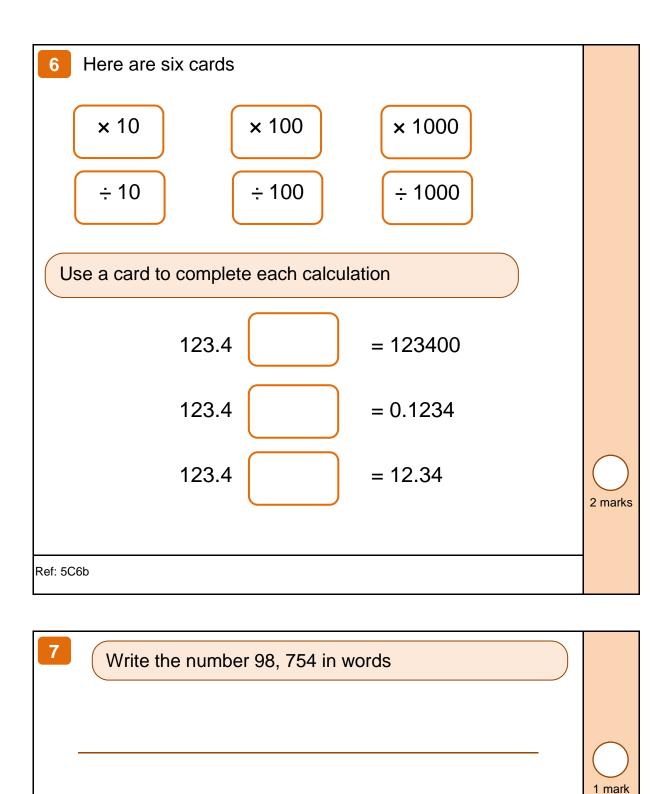
1	Look at the table showing factors.					
(Write one number in each box					
	One is done for you.					
		factor of 36	not a factor of 36			
	factor of 24	12				
	not a factor of 24				2 marks	
Ref: 5C	Ref: 5C5a					



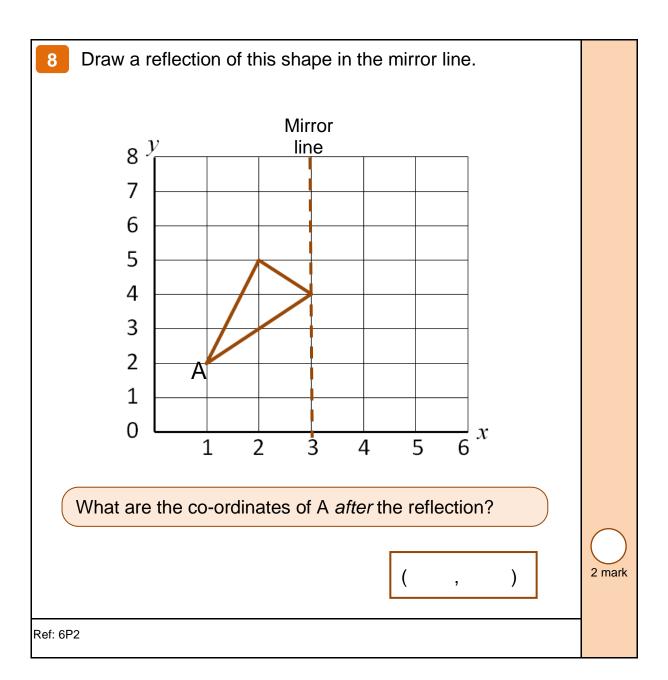


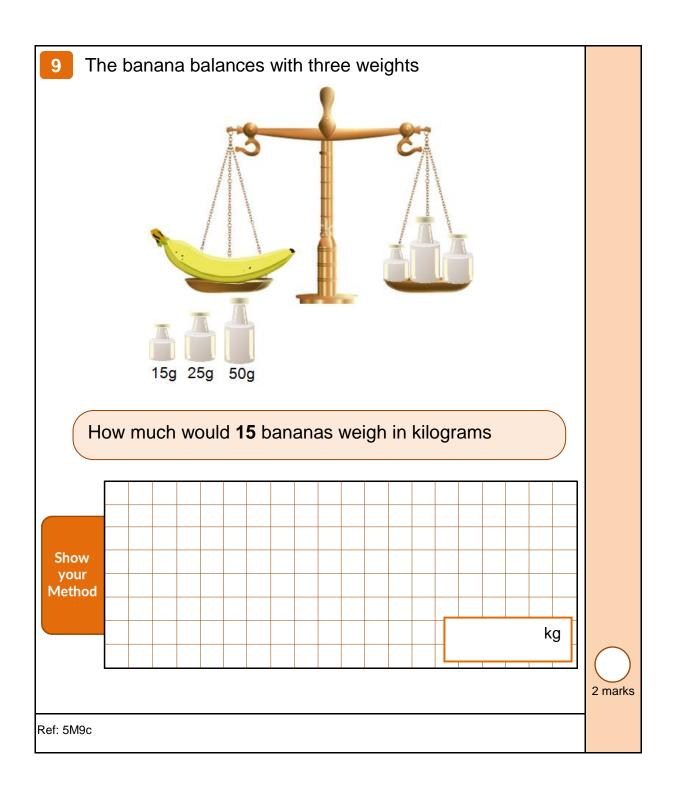


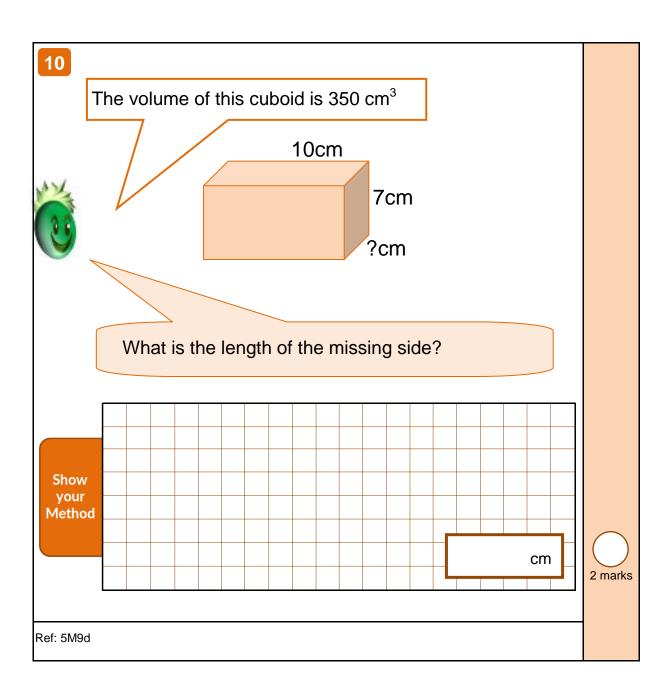


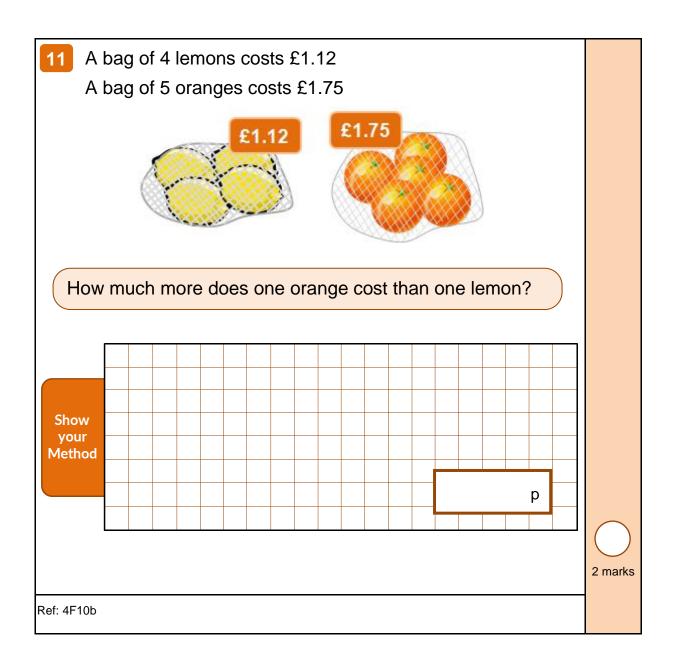


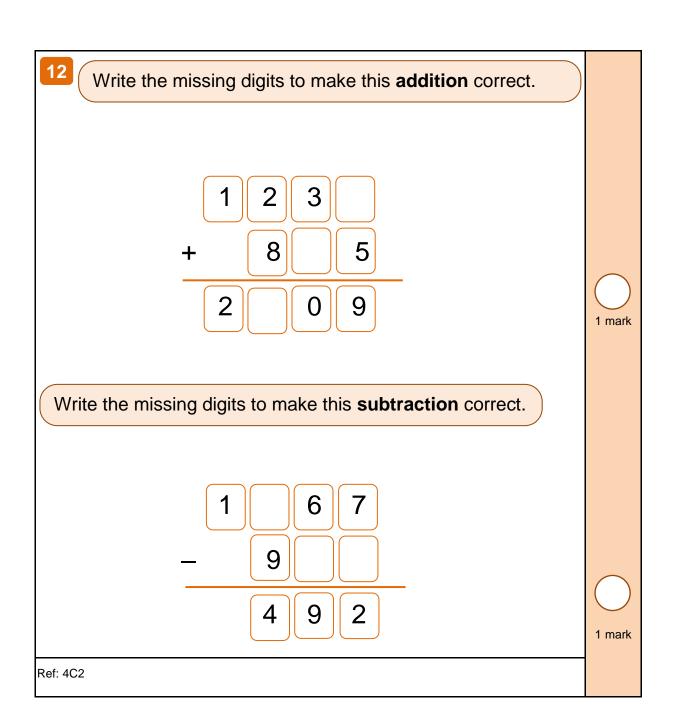
Ref: 5M2

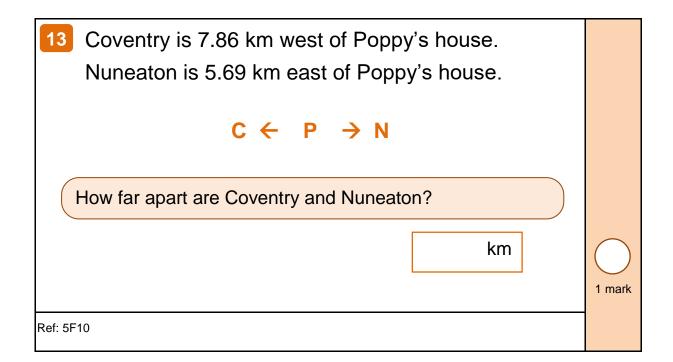




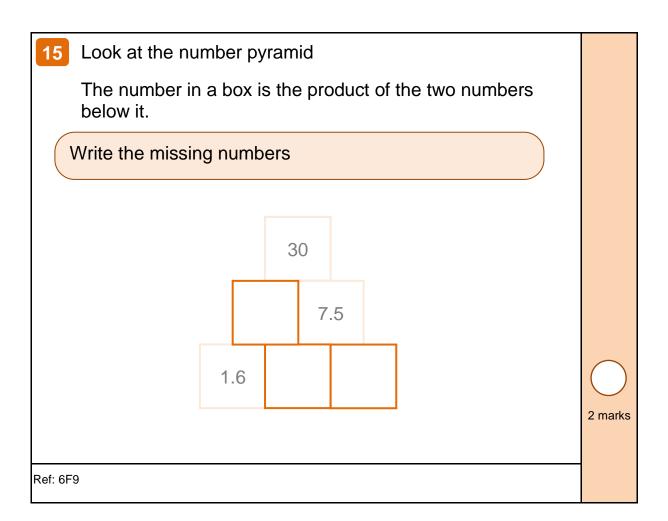


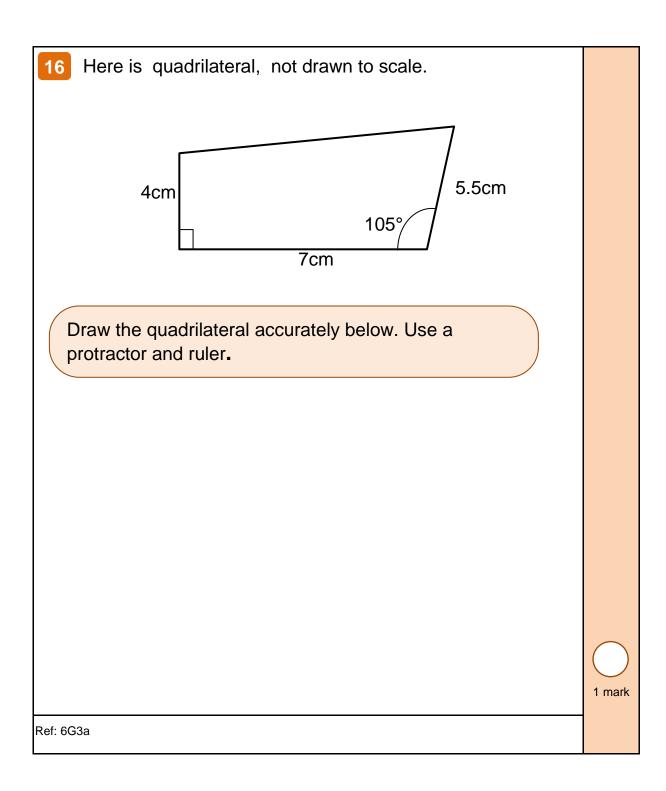


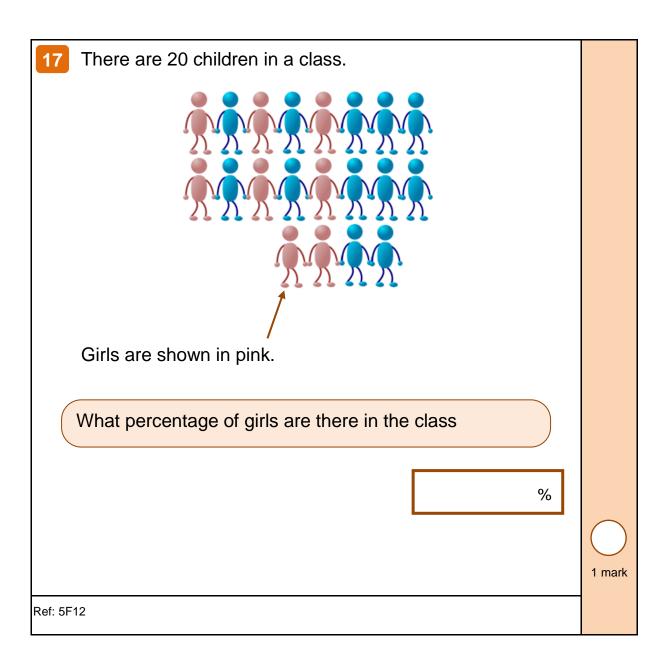


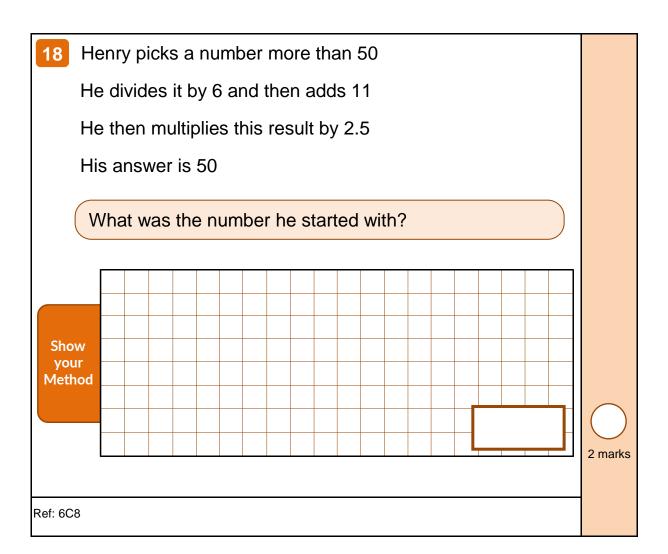


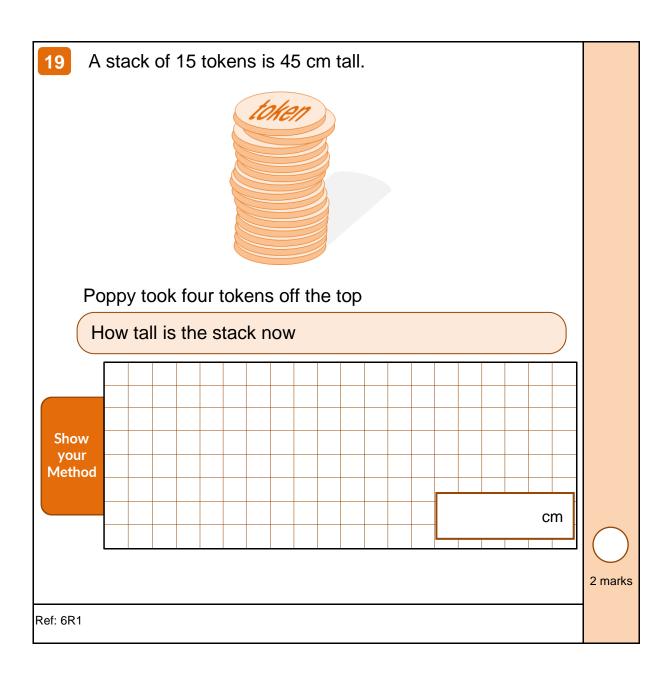
Look at the fraction cards.						
$\begin{array}{ c c }\hline 2\\\hline 3\\\hline \end{array}\qquad \begin{array}{ c c }\hline 5\\\hline 6\\\hline \end{array}\qquad \begin{array}{ c c }\hline 7\\\hline 9\\\hline \end{array}\qquad \begin{array}{ c c }\hline 9\\\hline 12\\\hline \end{array}$						
Use any three of the cards to make this correct						
Ref: 5F3						











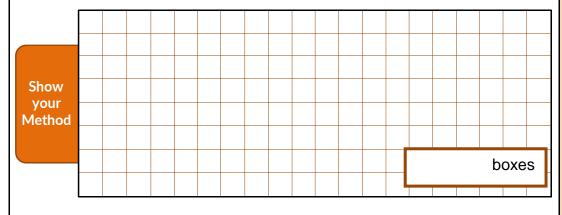
A school playing field needs seeding with grass seed.

The playing field measures 66m by 102m.



One box of grass seed covers 17m²

How many boxes will be needed to seed the pitch.





Ref: 6C7a/6C7c