Multiplication strategy assignment

There are many different ways that have been used throughout the world to solve multiplication and division problems. People have found a strategy that is easy for them to use and have applied it to solve problems. Different cultures have used different methods that have worked for them and have even used different symbols to represent numbers. There is no one correct strategy!

Task

- 1) You are to investigate one of the following multiplication methods that have been used by different cultures at one time in their history
 - Egyptian multiplication
 - Chinese multiplication
 - Russian multiplication
- 2) Investigate the number system of the country. Did they use symbols for numbers? If they did, construct a table showing the symbols they used, and how they relate to our numbers. If they did not, what did they use instead?
- 3) Investigate their method for solving multiplication problems, and write out instructions about how the method works
- 4) Use the method you have investigated to find answers to the following multiplications:
 - (a) 23×12
 - (b) 145×62
 - (c) 248×77
 - (d) 74×34
 - (e) 387×664

Next to each answer, show how this would be written in symbols from this other country.

5) Explain why the method works and gets the right answer to the problems

Presentation

All information and problems are to be displayed on a poster. You may like to:

- include a border, decorated in some appropriate way (for example, using symbols representing numbers, or a geometric pattern);
- Have a title showing the method you have chosen to explain;
- Do each of the tasks on coloured paper, and paste this onto your poster to make it colourful;
- Include relevant pictures to make you poster eye-catching.

Some information sheets have been provided, but you may like to do extra research for yourself.

Multiplication strategy marking sheet

Marker'	s name: Project work by:	Project work by:	
Part 1:	Presentation		
0 marks	Messy and untidy. Hard to follow what strategy is being shown or how the strategy works. It may not be properly finished.		
1 mark	The poster may be finished, but it is not eye-catching or well laid ou	t – the writing	
2 marks	may be untidy and doesn't clearly explain what is going on. There is good use of colour and a nice border, but its hard to read.	There might not	
3 marks	be enough explanation to help make sense of the strategy Beautiful, easy to read, and the writing is neat. Uses colour nicely. and relevant pictures have been used.	A nice border	
	Score:		
Part 2:	The multiplication strategy:	9	
Strategy na	amed 1 mark	Score	
The numbe	er system		
1 mark	The symbols used in the country are shown and how these are used to show numbers is well-explained. A table shows our numbers compared to theirs		
How the str	categy works is explained with a set of instructions		
1 mark	Explanation is hard to understand		
2 marks	Explanation is easy to follow, and the instructions sort of make		
3 marks	sense, but there is no example to help me see how it works Explanation is easy to follow, and an example helps me see and		
3 marks	understand how it works		
-	at sort of numbers and problems the strategy is useful for		
1 mark	The 5 problems are all solved using the strategy		
Explanation	n of why the method works.		
1 mark	A clear and simple explanation is given that explains why doing things this way always gets the right answer.		
		Total out of ten	