Prickly Problem Challenge
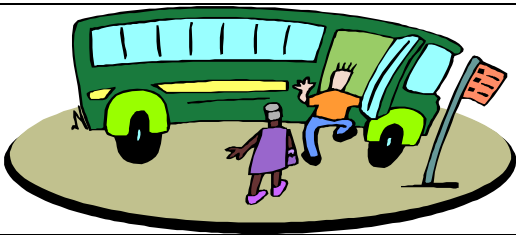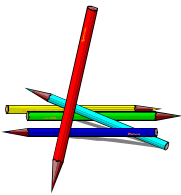
Use the skills you have gained to work out the best way of answering these questions. Remember sometimes it is best to solve problems mentally, other times you may need to write a sum. You may also have to complete more than one calculation to solve some of the problems.

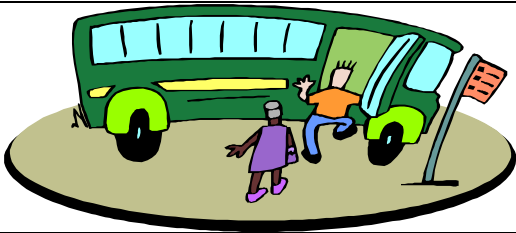| Question	Answer
If 220 x 17 = 3740, what does 225 x 17 = ?	
If 1184.4 ÷ 9 = 131.6 what is 131.6 x 8 ?	
What is the area of a square with sides 192.2cm long?	
There are 17 rows of chairs lined up for an assembly. There are 19 chairs in each row. How many chairs are their altogether?	
How many rows do 380 people need?	
Norman Street is going away for a picnic. There are 322 children in the school. Twenty five adults will also be going on the trip. If a coach has 52 seats, how many coaches will be needed?	

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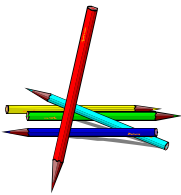|	
If each child has to pay £1.50 and each adult £1.75 what will be the total cost of the trip?	
A school has 32 children in each of its 13 classes. If each child was given 12 coloured pencils, how many pencils would have to be ordered in total?	
Bert has been punished for not completing his homework. He has been given a choice of writing lines once every day for 4 months or writing lines 17 times every day for 2 weeks. Which option causes him to write the most lines?	

| Name: | Date: |

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Use the skills you have gained to work out the best way of answering these questions. Remember sometimes it is best to solve problems mentally, other times you may need to write a sum. You may also have to complete more than one calculation to solve some of the problems.

Question	Answer
If 220 x 17 = 3740, what does 225 x 17 = ?	3825
If 1184.4 ÷ 9 = 131.6 what is 131.6 x 8 ?	1052.8
What is the area of a square with sides 192.2cm long?	36940.84 cm^2 (use a calculator!)
There are 17 rows of chairs lined up for an assembly. There are 19 chairs in each row. How many chairs are their altogether?	323
How many rows do 380 people need?	20
Norman Street is going away for a picnic. There are 322 children in the school. Twenty five adults will also be going on the trip. If a coach has 52 seats, how many coaches will be needed?	322 + 25 = 347 347 ÷ 52 = 6.67 Answer = 7 coaches

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If each child has to pay £1.50 and each adult £1.75 what will be the total cost of the trip?	Children = 322 x £1.50 = £483 Adults = 25 x £1.75 = £43.75 Total = 526.75
A school has 32 children in each of its 13 classes. If each child was given 12 coloured pencils, how many pencils would have to be ordered in total?	32 x 13 = 416 416 x 12 = 4992
Bert has been punished for not completing his homework. He has been given a choice of writing lines once every day for 4 months or writing lines 17 times every day for 2 weeks. Which option causes him to write the most lines?	a. 4 x 7 = 28 28 x 4 = 112 b. 17 x 14 = 238 Answer b – 238 pages