<b>BRICKWORK</b> Mathematics	Prior learning assessment Multiplication Year 5- Answers Division
1) Answer these m	ultiplication sums
a) 16 x 4 = 64	You may want to provide time to discuss with individual children the strategies they used to see if they are using efficient
b) 4 x 60 = 240	strategies. Children should show that they have used strategies such as partitioning or doubling to find 2,4 and 8 lots and using timetable facts and place value knowledge
c) 15 x 8 = 120	to mentally multiply efficiently.
d) 40 x 50 = 2000	
e) 6 x 80 = 480	

2) Mrs Woodford buys 6 large packets of seeds. Each packet weighs 149 grams. What is the total weight of the 6 packets?

Children may have used mental method such as rounding: 150X 6 = 900 900 - 6 = 894

Some children may show understanding of a more formal written method for multiplication (see below). For year 5, the children should be encouraged to suggest when a mental method is most appropriate and when a more formal short or written method can be used.

894 grams

### 3) 67 × 8 =

h	+	0	h	†	0	Children may have				
	6	7		6	7	children have selected				
×		8	×		8	year 5 the children				
	5	6	5	3	6	formal written method of either the expanded				
Δ	_					an alaant multiplication				
4	8	0	5	5		or short multiplication				

4) 213 x 6 =

	2	1	3		2	1	3	
×			6	×			6	
		1	8	1	2	<b>7</b>	8	
		6	0					
1	2	0	0					
1	2	7	8				127	78

5) 1029 x 4 =

	1	0	2	9		1	0	2	9		
x				4	×				4		
			3	6		4	<b>1</b>	<b>1</b> 3	6		
			8	0							
				0							
	4	0	0	0							
	4	<b>1</b>	1	6		4116					



## 6) 25 x 31 =

	2	5		2	5	In year 5 the children should be						
×	3	1	×	3	1	of either the expanded or long multiplication method for 2-digit						
		5		2	5	multiplication. Many children make errors with the use of the long						
	2	0	<b>7</b> 1	5	0	multiplication method due to place value knowledge (for example it is 30						
1	5	0	7	7	5	x 5 not 3 x 5). More examples and an explanation can be found in the activity section						
6	0	0										
7	7	5				775						

# 7) 167 × 19 =

	1	6	7			1	6	7			
	×	1	9			×	1	9			
		6	3		<b>1</b>	5 6	0 6	3			
	5	4	0		1	6	7	0			
	9	0	0		<b>3</b> 1	1	7	3			
		7	0	Ma	ny childr	en make	errors w	ith the u	se of the	e long	
	6	0	0	exc	ample it i planation	s 10 x 7 can be f	and not 1 ound in t	x 7). Mo he activit	re exam ty sectio	ples and o n.	an
1	0	0	0								
<b>3</b> 2	<b>1</b>	7	3					3173			





#### 8) 1098 × 18 =

	1	0	9	8			1	0	9	8			
	×		1	8			x		1	8			
			6	4	-		8	7 7	8 6	4			
		7	2	0		1	0	9	8	0			
				0		1	9	7	6	4			
	8	0	0	0			1	1					
			8	0	In year 5, the children should be using a more formal written method of either the expanded or long								
		9	0	0	examp activit	oles and a ty section	an explan n.	ation car	ı be foun	d in the			
				0									
1	0	0	0	0									
1	<b>9</b> 1	<b>7</b> 1	6	4				197	<b>'64</b>				

## 9) List all the factors of 32.

1, 2, 4, 8, 16, 32

Assess if the children have no understanding of the word factor or no strategies to ensure that they have all factor pairs possible. Such as, children may demonstrate understanding by stating some of the factors accurately but may not have listed all of them.

10) Circle all the numbers below that are factors of both 16 and 24. 7 1 5 8 2 3 4 6 **TRICKWORKER** Mathematics

Division





15) Sonia sells her paintings online and sends them out to customers. She charges £49.50 delivery per order. Each painting costs £285. Harry orders 4 paintings. How much does he need to pay to Sonia?



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Children should demonstrate understanding that they need to work out how much the 4 paintings cost first and then add the £49.50 on afterwards. Some children may have added the £49.50 on to £285 and then multiplied by 4. If so, these children will need more support with selecting information from word problems.

Additionally, some children may demonstrate misconceptions with place value and adding a decimal amount to a whole number. Children may need a refresher on adding decimal amounts to whole numbers and more apply opportunities in this unit.

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