

Division up to 4 digits by a single digit

Remember to;

$$4265 \div 3 = 1421 \text{ r } 2$$

- Write one digit per square
- Write the number you are dividing by outside (3)
- Write the number you are dividing inside (4265)
- Divide the first digit by the outside number (4000 \div 3. Pupils may also use the language 4 \div 3)
- Write the answer on the top line
- Multiply the answer (the number on the top line) by the outside number (3)
- Write that answer below
- Subtract that answer from the digit your divided (4-3)
- Write the answer below
- Bring down the next digit (2)
- Repeat, starting with dividing the new number you have created below (12) by the outside number (3)
- Repeat all of the steps as above until you reach the last digit of the number you are dividing.

Children working within band 5 should be secure with the written method for division to allow them to use the abstract representation shown opposite.

Abstract

Step 1:

		D	M	S	B
3		4	2	6	5

Step 2:

			✓	✓	✓	✓
			D	M	S	B
		1				
3		4	2	6	5	
-		3				
		1	2			

Step 3:

			✓✓	✓✓	✓✓	✓✓
			D	M	S	B
		1	4			
3		4	2	6	5	
-		3				
		1	2			
-		1	2			
			0	6		

Step 4:

			✓✓✓	✓✓✓	✓✓✓	✓✓✓
			D	M	S	B
		1	4	2		
3		4	2	6	5	
-		3				
		1	2			
-		1	2			
			0	6		
-			6			
				0	5	

Step 5:

			✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓
			D	M	S	B
		1	4	2	1	r 2
3		4	2	6	5	
-		3				
		1	2			
-		1	2			
			0	6		
-			6			
				0	5	
-				3		
					2	