

Short Division

$$786 \div 5 = ?$$

What to do

1. Work from the left, divide each digit by the divisor. For the hundreds digit ask: How many 5s in 7? $7 \div 5 = 1 \text{ r}2$. Write the 1 above the line and carry the 2.

	H	T	U	
	1			
5	7	² 8	6	

2. Then look at the tens. Instead of 8 there are now 28. Ask: How many 5s in 28? $28 \div 5 = 5 \text{ r}3$. Write the 5 above the line and carry the 3.

	H	T	U	
	1	5		
5	7	² 8	³ 6	

3. Then look at the units. Instead of 6 there are now 36. Divide 36 by 5. $36 \div 5 = 7 \text{ r}1$. Write 7 r1 above the line to complete the answer.

	H	T	U	
	1	5	7	r1
5	7	² 8	³ 6	

Long Division

$$3512 \div 67 = ?$$

What to do

1. The first two digits of the number, 35, are smaller than the divisor (67), so look at the first three digits. Ask: How many 67s in 351? Estimate how many you think there are. $70 \times 5 = 350$ so try 5. Alternatively, write out your 67 times table.

	Th	H	T	U	
			5		
67	3	5	1	2	

2. Write 5 above the tens digit and multiply 5×67 . Use written multiplication to do this. $5 \times 67 = 335$. Subtract this from the first three digits. $351 - 335 = 16$.

	Th	H	T	U	
			5		
67	3	5	1	2	
-	3	3	5		
		1	6		

3. Bring down the next digit to give 162. Ask: How many 67s in 162? Make an estimate, for example 2, or use your tables, and write it above.

	Th	H	T	U	
			5	2	
67	3	5	1	2	
-	3	3	5		
		1	6	2	
	-	1	3	4	

4. Multiply the number written down (2) by the divisor (67). $2 \times 67 = 134$. Write the answer, 134, under the 162.

5. Subtract the answer from the number above it, $162 - 134 = 28$. There are no more numbers to bring down so put the answer as a remainder.

	Th	H	T	U	
			5	2	r28
67	3	5	1	2	
-	3	3	5		
		1	6	2	
	-	1	3	4	
			2	8	

