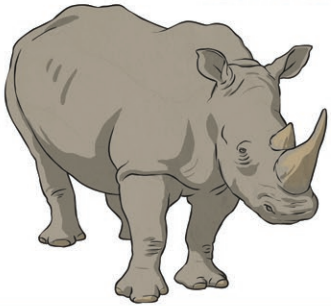


# Number and Place Value Maths Mastery Challenge Cards



Number and Place Value Maths Mastery

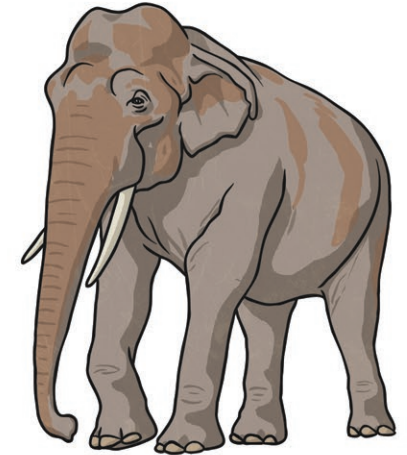
1. Which number is the odd one out?  
Explain your reasons.

1330

1015

2941

3645



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2. I'm thinking of a number.  
I halve it.  
I divide it by 7.  
I subtract 4.  
My answer is  $16 \div 4$   
What number was I thinking of?  
Explain your answer.

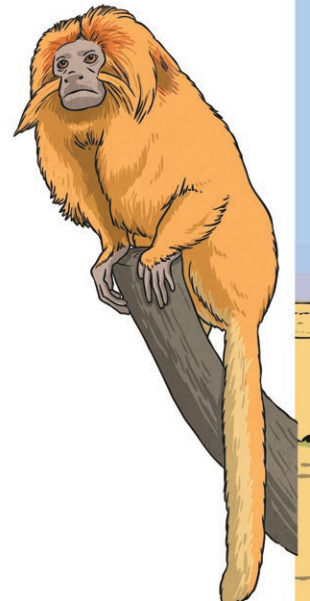


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3. If I start counting in tens from  
20, the nineteenth number will  
be 200.

Is this correct?  
Explain how you know.  
What will the 100th number be?



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4. 5510 is 5 thousands 5 hundreds and 1 ten. It is also:  
551 tens  
55 hundreds and 1 ten  
5 thousands and 510 ones

How many different ways can you show the numbers on the rocks?



5. What numbers should be in the gaps?

$$\begin{array}{r} \square 2 \square \\ \times \quad 4 \\ \hline 1716 \end{array}$$

$$\begin{array}{r} 520 \\ \times \quad \square \\ \hline 4160 \end{array}$$

$$\begin{array}{r} \square 8 \square \\ \times \quad 6 \\ \hline 1122 \end{array}$$

6. The meerkat says that the multiplication calculations all have the same answer as

$$3 \times 2 \times 9$$

Is he correct? Tell him how you know.

$$2 \times 27$$

$$6 \times 3 \times 3$$

$$9 \times 3 \times 2$$

$$6 \times 2 \times 4$$

$$6 \times 9$$



7. Sid the Snake has these numbers.

9 0 4 2 1

He says the smallest number he can make with them using each number once is

29 140

Is he correct?

Explain your reasons.

Tell him what the largest number he could make would be.



# Number and Place Value

## Maths Mastery Challenge Card Answers

1. 1015 - Only number with zero for the hundreds.  
1330 - Only even number, only number divisible by 10  
2941 - Only number not divisible by 5, only number with even thousand digit.
2. The answer is 112.
3. Yes the 19<sup>th</sup> number will be 200.  
The 100<sup>th</sup> number will be 1010.
4. 8607:  
8 thousands, 6 hundreds and 7 ones  
86 hundreds, and 7 ones  
8 thousands and 607 ones  
  
3141:  
3 thousands, 1 hundred, 4 tens, and 1 one  
31 hundreds, 4 tens and 1 one  
3 thousands, 14 tens and 1 one  
3 thousands, and 141 ones  
  
2184:  
2 thousands, 1 hundred, 8 tens and 4 ones  
21 hundreds, 8 tens and 4 ones  
2 thousands and 184 ones  
2 thousands, 18 tens and 4 ones
5.  $429 \times 4 = 1716$   
 $520 \times 8 = 4160$   
 $187 \times 6 = 1122$
6. No, they all make 54 except  $6 \times 2 \times 4$ .
7. Smallest number is 10 249  
Largest number is 94 210