This half term your children are working towards achieving their individual KIRF targets, indicated below. The ultimate aim is for your child to be able to recall these facts instantly!

Know the tests for divisibility for numbers up to 10

Helpful hints for parents

- *Select a random number (2-digit to start with) and ask whether the number is divisible by 2, 3, 5, 6,9. How do you know?*
- *Encourage children to know these really well as a means of developing more efficient number strategies.*

Key vocabulary

Divisible by, factor, shared, divided by, groups of
Divisibility, prime number, square number
Multiple, factor, digits

THE DIVISIBILITY RULES

Dividing by 2
All even numbers are divisible by 2.
e.g., all numbers ending in 0,2,4,6 or 8.

Dividing by 3
Add up all the digits in the number.
Find out what the sum is. If the sum is divisible by 3, so is the number
For example: 12123 (1+2+1+2+3=9) 9 is divisible by 3, therefore 12123 is too!

Dividing by 4
Are the last two digits in your number divisible by 4?
If so, the number is too!
For example: 358912 ends in 12 which is divisible by 4, thus so is 358912.

Dividing by 5
Numbers ending in a 5 or a 0 are always divisible by 5.

Dividing by 6
If the number is divisible by 2 and 3 it is divisible by 6 also.

Dividing by 7
Take the last digit in a number.
Double and subtract the last digit in your number from the rest of the digits.
Repeat the process for larger numbers.
Example: 357 (Double the 7 to get 14.
Subtract 14 from 35 to get 21 which is divisible by 7 and we can now say that 357 is divisible by 7.

Dividing by 8
This one's not as easy, but if the last 3 digits are divisible by 8, so is the entire number.
Example: 6008 - The last 3 digits are divisible by 8, therefore, so is 6008.

Dividing by 9
Almost the same rule and dividing by 3. Add up all the digits in the number.
Find out what the sum is. If the sum is divisible by 9, so is the number.
For example: 43785 (4+3+7+8+5=27) 27 is divisible by 9, therefore 43785 is too!

Dividing by 10
If the number ends in a 0, it is divisible by 10.