Key Instant Recall Facts

This half term your child is working towards achieving knowledge of KIRFs, indicated below.
The ultimate aim is for your child to be able to recall these facts instantly!

Know all addition and subtraction facts for: Multiples of 100 to 1000 Multiples of 5 with a total of 100 Number pairs that total 100	Know all pairs of multiples of 50 with a total of 1000	Know all pairs of factors of numbers up to 100	Know the tests for divisibility for 4 and 6	Know the decimal and percentage equivalents of the fractions ½, ¼, ¾, ⅓, ⅔, tenths and fifths

Example of addition and subtraction facts for multiples of 100 to 1000:

If I have 700 ml of orange juice and I pour 300ml into a glass how much is left in the jug?

400ml are left!

Well done, that was quick!

Factors of 24

1×24

4×6 24 3×8

2×12

so there are 8 factors of 24....
1,2,3,4,6,8,12,24

RULE: A whole number is divisible by 4 if the last two digits are divisible by 4.
 Let's try ...
2437 ... no, because 37 isn't divisible by 4
1748... yes, because 48 is divisible by 4

RULE: A whole number is divisible by 6 if it is even and is also divisible by 3
REMEMBER!
A whole number is divisible by 3 if the sum of its digits is divisible by 3
Let's try...
8431 ... no because it's odd
5462 ...no because the digits total 17 (5+4+6+2)
7314 ...yes because 7+3+1+4= 15, which is divisible by 3

Helpful hints for parents

- *List pairs of numbers*
- *Jot the opposite statements alongside e.g. 850 + 150   150 + 850*
- *Practise with the numbers in order and chosen randomly - remember the aim is for the child to be able to respond immediately.*

Key vocabulary

How many more to make..?, altogether, make, sum, total, how much more is...than..., ...difference between Divisible by, factor, shared, divided by, groups of

Make it real!

A packet of popcorn cost 74p. How much change will I have from a pound?

26p!
Why?
The difference between 74 and 100 is 26.

Dad measures 350g of sugar from a kilogram bag of sugar to bake a cake. How much sugar is left in the bag?

650g!
How do you know?
Because 350 and 650 total 1000.

A farmer has 126 eggs and puts them into boxes of 6. Will there be any eggs left over?

No!
Are you sure?
Yes, because it is even and the sum of the digits is in the three times table

A baker cooks a batch of 245 muffins and puts them into packs of 4. Will there be any left on the tray?

Yes!
Can you explain?
45 is not divisible by 4, so neither is 245

Make it fun!

Call out!
Play number ping pong! Start of saying 'ping', child replies with 'pong'.
Repeat and then convert to numbers i.e. say '73' and they reply '27' (number pairs that total 100) or '550' and they reply '450'.

What's hidden?
Have a bag of twenty 5p pieces - child can select a random number and quickly call out the change from a pound which is hidden in the bag.

Cards:
Make cards with multiples of 50 on them (e.g. 50, 100, 150 etc)
•child can select one at random a quickly calls out how many more are needed to make 1000
•ask children to sort them into pairs that total 1000 - how quickly can they do it? Can they beat their last time?

Dice:
Roll a dice and generate a two-digit, three-digit or four-digit number. Children discuss whether the number is divisible by 4 or 6.

Timed Games:
How well are you doing? How many questions can you answer in 2 minutes. Can you beat your own record?