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 number bonds for each number to 20 Green	Know all number bonds to 100 Blue	Know all decimals that total 1 or 10 (1 decimal place) Purple	Know all previous number bonds including decimals Lilac	Know the two place decimal complements of 1

Example of number bonds to 100:
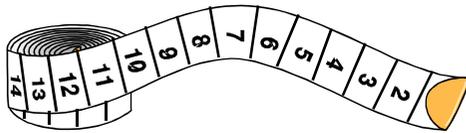
I have a metre of string. I use 67cm to wrap my parcel.
How much string is left?

33cm are left!

Well done, that was quick!

All decimal bonds to 1:

0.1	+ 0.9	= 1
0.2	+ 0.8	= 1
0.3	+ 0.7	= 1
0.4	+ 0.6	= 1
0.5	+ 0.5	= 1
0.6	+ 0.4	= 1
0.7	+ 0.3	= 1
0.8	+ 0.2	= 1
0.9	+ 0.1	= 1
1.0	+ 0.0	= 1

Example of decimal bonds to 10:

$6.2 + 3.8 = 10$; $6.2 + 3.8 = 10$
so
$10 - 6.2 = 3.8$; $10 - 3.8 = 6.2$

$4.9 + 5.1 = 10$; $5.1 + 4.9 = 10$
so
$10 - 4.9 = 5.1$; $10 - 5.1 = 4.9$

Helpful hints for parents

- *Create regular, short opportunities for rapid fire questions where an instant correct answer is required*
- *Use objects to consider the bonds in a practical way*
- *Look at the patterns with both objects and numbers e.g. as one number increases the other one decreases*
- *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

Make it real!

Jack has £1, he spends 30p. How much change does he get?
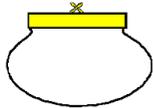
70p!
Are you sure?
Yes, the sum of 70p and 30p is
100p - that's £1

A bag of sugar contains 1 kg. If I use 340g how much will I have left?

660 grams!
How do you know?
The difference between 1000 grams and 660g is 340g.

A litre jug is filled with 0.25l of juice. How much more is needed to make a litre?

0.75 of a litre!
How did you work that out?
Because a quarter of a litre plus three quarters of a litre equals 1 whole litre.

Remember - a great place to think about capacity is in the bath!

Make it fun!

Call out!
Play number ping pong!
Start by saying 'ping', child replies with 'pong'.
Repeat and then convert to numbers i.e. say '0.3' and they reply '0.7' (decimal bonds to 1)

What's hidden?
There are 17 beans on this plate, I hide some under a beaker - how many have I hidden? (bonds for *each* number to 20)

Playing cards:
Remove picture cards and the 10s. Play snap treating each card as tenths. When you have a pair which total 1, shout snap and explain why e.g. 0.2 + 0.8 = 1

Dice:
Roll two die treat them as the first as the tens digit and the second as the ones - ask how many more to make 100.

Dominoes:
Pick a domino from a set facing down. Choose one side to represent the whole number and the other side to be the tenth. Ask how much more to make 10.
e.g. picture shows 5.2, so 4.8 more makes 10.

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