



Key Instant Recall Facts

Year 3 – Autumn 1

Key Vocabulary

What do I **add** to 5 to make 19?

What is 17 **take away** 6?

What is 13 **less than** 15?

How many **more than** 8 is 11?

What is the **difference** between 9 and 13?

What is the **whole**?

What are the **parts**?

Helpful hints

- 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.

Top Tips

The secret to success is practising **little and often**. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

I aspire to know number bonds for all numbers to 20.

By the end of this half term, children should know the following facts. The aim is for them to recall these facts **instantly**.

$2 + 9 = 11$	$5 + 9 = 14$	E.g Number facts for 15:
$3 + 8 = 11$	$6 + 8 = 14$	
$4 + 7 = 11$	$7 + 7 = 14$	Example of a fact family
$5 + 6 = 11$		$6 + 9 = 15$
	$6 + 9 = 15$	$9 + 6 = 15$
$3 + 9 = 12$	$7 + 8 = 15$	$15 - 9 = 6$
$4 + 8 = 12$		$15 - 6 = 9$
$5 + 7 = 12$	$7 + 9 = 16$	
$6 + 6 = 12$	$8 + 8 = 16$	Examples of other facts
		$10 + 5 = 15$
$4 + 9 = 13$	$8 + 9 = 17$	$9 + 6 = 15$
$5 + 8 = 13$		$8 + 7 = 15$
$6 + 7 = 13$	$9 + 9 = 18$	$7 + 8 = 15$

This list includes the most challenging facts but children will need to learn all number bonds for each number to 20 (e.g. $15 + 2 = 17$). This includes related subtraction facts (e.g. $17 - 2 = 15$).

You could try some of these ideas...

- **Buy one get three free**- If your child knows one fact (e.g. $8 + 5 = 13$), can they tell you the other three facts in the same fact family? ($5+8=13$, $13-5=8$, $13-8=5$)
- **Use doubles and near doubles**– If you know that $6 + 6 = 12$, how can you work out $6 + 7$? What about $5 + 7$?
- **Play games**– There are missing number questions at www.conkermaths.com See how many questions you can answer in just one minute. Can you beat your own record?
- **Make a poster**– Use whole/ part model to create a fact family. How many other facts can you draw?
- **Practise online** – <http://www.arcademicskillbuilders.com/games/alien/alien.html> is great for practising addition. <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> is a great website for practising all KIRFs.