

**St Wilfrid’s**

Catholic Primary School

**KIRF’s – KEY INSTANT RECALL FACTS**

To help develop children’s fluency in mathematics, we ask them to learn Key Instant Recall Facts each half term. We expect children to practise their KIRFs at least 3 times a week.

Year 3 – Autumn 1

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

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

**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?

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| 2 + 9 = 11  3 + 8 = 11  4 + 7 = 11  5 + 6 = 11  3 + 9 = 12  4 + 8 = 12  5 + 7 = 12  6 + 6 = 12  4 + 9 = 13  5 + 8 = 13  6 + 7 = 13 | 5 + 9 = 14  6 + 8 = 14  7 + 7 = 14  6 + 9 = 15  7 + 8 = 15  7 + 9 = 16  8 + 8 = 16  8 + 9 = 17  9 + 9 = 18 | Example of a fact family  6 + 9 = 15  9 + 6 = 15  15 – 9 = 6  15 – 9 = 6  Examples of other facts  4 + 5 = 9  13 + 5 = 18  19 – 7 = 12  10 – 6 = 4 |

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).

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.

* 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?
* 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](http://www.conkermaths.com/) . See how many questions you can answer in just one minute