



Sticky Knowledge

YEAR 3 – Autumn 1



I 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 be able to recall these facts **instantly**.

$2 + 9 = 11$

$3 + 8 = 11$

$4 + 7 = 11$

$5 + 6 = 11$

$3 + 9 = 12$

$4 + 8 = 12$

$5 + 7 = 12$

$6 + 6 = 12$

$4 + 9 = 13$

$5 + 8 = 13$

$6 + 7 = 13$

$5 + 9 = 14$

$6 + 8 = 14$

$7 + 7 = 14$

$6 + 9 = 15$

$7 + 8 = 15$

$7 + 9 = 16$

$8 + 8 = 16$

$8 + 9 = 17$

$9 + 9 = 18$

Example fact

family:

$6 + 9 = 15$

$9 + 6 = 15$

$15 - 9 = 6$

$15 - 6 = 9$

Example of

other facts:

$4 + 5 = 9$

$13 + 5 = 18$

$19 - 7 = 12$

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?

Top Tips

The secret to success is practising *little* and *often*. Use time wisely. Can you practise these while walking to school or during a car journey? You do not need to practise them all at once; perhaps you could have a fact of the day.

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 <https://www.topmarks.co.uk/maths-games/subtraction-grids>, see how many questions your child can answer in just one minute.