



Fast Fluency Facts

We are learning number bonds of 20.

Number bonds show us how numbers join together. They are very important for addition and subtraction. By the end of this half term, children should know the following facts. The aim is for them to recall these facts **instantly**. This foundational skill will forge a deep sense of number that will inform their future learning in all areas of Maths.

$0 + 20 = 20$ $20 + 0 = 20$ $20 - 20 = 0$ $20 - 0 = 20$ $11 + 9 = 20$ $19 + 1 = 20$ $20 - 9 = 11$ $20 - 1 = 19$	$12 + 8 = 20$ $18 + 2 = 20$ $20 - 2 = 18$ $20 - 8 = 12$ $13 + 7 = 20$ $17 + 3 = 20$ $20 - 7 = 13$ $20 - 3 = 17$	$14 + 6 = 20$ $16 + 4 = 20$ $20 - 16 = 4$ $20 - 14 = 6$ $15 + 5 = 20$ $20 - 5 = 15$
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Key Vocabulary

What do I **add** to 5 to make 20?
What is 20 **take away** 6?

What is 3 **less than** 20?
How many more than 16 is 20?

Show me all the ways to make...

They should be able to answer these questions in any order, including missing number questions e.g. $6 + \bigcirc = 20$ or $20 - \bigcirc = 3$

Top Tips

The secret to success is practising **little** and **often**. Use time wisely. Can you practise these key facts 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. Building confidence in mathematics is crucial so be pleased with their efforts and always encourage with praise. Make sure these practice sessions are enjoyable - if your child is really not in the mood it is the wrong time to be practising! If you would like more ideas, please ask your child's teacher.

Paper Chains- Use two different colours to make paper chains to show each number bond, for example $14 + 6$ could be shown as 14 green links and 6 blue links.

Say it, make it, write it- For each number bond, say it out loud, make it using everyday objects and then write it as a sum.

Pegs – Put 20 pegs on to a coat hanger, split them in different ways and count how many pegs are on each side. E.g. $14 \text{ pegs} + 6 \text{ pegs} = 20 \text{ pegs}$ ($14+6=20$).

Use what you already know - Use number bonds to 10 (e.g. $7 + 3 = 10$) to work out related number bonds to 20 (e.g. $17 + 3 = 20$).

Use practical resources - Make collections of 20 objects. Ask questions such as, "How many more conkers would I need to make 20?"

Make a poster - We use Numicon at school. You can find pictures of the Numicon shapes here: [Numicon Pictures](#) - your child could make a poster showing the different ways of making 5.

Play games - You can play number bond pairs online at <https://www.topmarks.co.uk/maths-games/hit-the-button> and then see how many questions you can answer in just one minute or play Soothie Maths at <https://ictgames.com/mobilePage/smoothie/index.html> or Save The Whale at <https://ictgames.com/saveTheWhale/> where you can add together the correct length of pipe creating a number bond to 10 in order to save the whale.

Sumdog - Ask your teacher to set your Sumdog account to focus on these key facts, <https://www.sumdog.com/sch/merleyfirst3>