



## KEY INSTANT RECALL FACTS

STAGE: 2

AUTUMN: 1

### I know number bonds to 20.

By the end of this half term, children should know the facts in the first 3 columns below. The aim is for them to recall these facts **instantly**. They should also be able to work out other number facts within 20 like the ones shown in the final column.

|                |               |                |               |
|----------------|---------------|----------------|---------------|
| $0 + 20 = 20$  | $16 + 4 = 20$ | $20 - 6 = 14$  | $3 + 11 = 14$ |
| $1 + 19 = 20$  | $15 + 5 = 20$ | $20 - 7 = 13$  | $11 + 3 = 14$ |
| $2 + 18 = 20$  | $14 + 6 = 20$ | $20 - 8 = 12$  | $14 - 11 = 3$ |
| $3 + 17 = 20$  | $13 + 7 = 20$ | $20 - 9 = 11$  | $14 - 3 = 11$ |
| $4 + 16 = 20$  | $12 + 8 = 20$ | $20 - 10 = 10$ | $11 = 14 - 3$ |
| $5 + 15 = 20$  | $11 + 9 = 20$ | $20 - 20 = 0$  | $3 = 14 - 11$ |
| $6 + 14 = 20$  | $20 - 0 = 20$ | $20 - 19 = 1$  |               |
| $7 + 13 = 20$  | $20 - 1 = 19$ | $20 - 18 = 2$  | $6 + 13 = 19$ |
| $8 + 12 = 20$  | $20 - 2 = 18$ | $20 - 17 = 3$  | $13 + 6 = 19$ |
| $9 + 11 = 20$  | $20 - 3 = 17$ | $20 - 16 = 4$  | $19 - 6 = 13$ |
| $10 + 10 = 20$ | $20 - 4 = 16$ | $20 - 15 = 5$  | $19 - 13 = 6$ |
| $20 + 0 = 20$  | $20 - 5 = 15$ | $20 - 14 = 6$  | $13 = 19 - 6$ |
| $19 + 1 = 20$  |               | $20 - 13 = 7$  | $6 = 19 - 13$ |
| $18 + 2 = 20$  |               | $20 - 12 = 8$  |               |
| $17 + 3 = 20$  |               | $20 - 11 = 9$  |               |

### 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?

What is 15 **take away** 7?

**How many more** than 11 is 19?

They should be able to answer these questions in any order, including missing number questions e.g.  $17 + \bigcirc = 20$  or  $20 - \bigcirc = 12$ . Given a number fact such as:  $5 + 12 = 17$ , they should be able to give related facts e.g.  $12 + 5 = 17$ ,  $17 - 5 = 12$ ,  $5 = 17 - 12$  etc.

### 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.

Use what you already know – Use number bonds to 10 (e.g.  $6 + 4 = 10$ ) to work out related number bonds to 20 (e.g.  $16 + 4 = 20$ ).

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: [bit.ly/NumiconPictures](http://bit.ly/NumiconPictures) – your child could make a poster showing the different ways of making 20.

Play games – You can play number bond pairs online at [www.conkermaths.com](http://www.conkermaths.com) and then see how many questions you can answer in just one minute.