



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 – 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 and then see how many questions you can answer in just one minute.