



Year 4 Autumn | KIRFs

Key Instant Recall Facts (KIRFs) are designed to support the development of the mental skills that underpin much of the maths work in school. Instant recall facts help enormously with mental agility within maths lessons.

I know number bonds to 100

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

Some examples:

$$60 + 40 = 100$$

$$40 + 60 = 100$$

$$100 - 40 = 60$$

$$100 - 60 = 40$$

$$37 + 63 = 100$$

$$63 + 37 = 100$$

$$100 - 37 = 63$$

$$100 - 63 = 37$$

$$75 + 25 = 100$$

$$25 + 75 = 100$$

$$100 - 25 = 75$$

$$100 - 75 = 25$$

$$48 + 52 = 100$$

$$52 + 48 = 100$$

$$100 - 52 = 48$$

$$100 - 48 = 52$$

Key Vocabulary

What do I **add** to 65 to make 100?

What is 100 **take away** 6?

What is 13 **less than** 100?

How many more than 98 is 100?

This list includes some examples of facts that children should know. They should be able to answer questions including missing number questions.

e.g. $49 + \bigcirc = 100$ or $100 - \bigcirc = 72$

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 do not 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. $85 + 15 = 100$), can they tell you the other three facts in the same fact family?

Use number bonds to 10 – How can your number bonds to 10 help you work out number bonds to 100?

Play Games – There are missing number questions at www.conkermaths.com. See how many questions you can answer in 90 seconds. There is also a number bond pair game to play.