

Key Instant Recall Facts (KIRFs)

This year your child has been working towards achieving their individual KIRF targets shown below. The ultimate aim is for your child to be able to recall these facts **instantly**. It will help them greatly if you can find a few minutes regularly throughout the holidays to continue practicing. Every little bit really does help.

Know all the number bonds to 100	Know the multiplication and division facts for the 7x and 8x tables	Know all the two digit pairs that make 100	Know doubles and halves of: all whole numbers to 50, all multiples of 5 to 1000, all multiples of 50 to 5000	Know all pairs of multiples of 50 with a total of 1000	Know all multiplication and division facts for all tables up to 10 x 10
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MAKING IT FUN!

• **CALL OUT**

Play number ping pong - start off saying 'ping', child replies with 'pong'. Repeat and then convert to numbers.

- ✓ i.e. say '32' and they reply with '68' (pairs of numbers that total 100)
- ✓ or say '39' and they reply with '78' (doubles of numbers up to 50),
- ✓ or say '550' and they reply '450' (multiples of 50 that make 1000).

Fizz Buzz

To practice the 5x and 8 x table together - take it in turns to count in ones. If the number is in the 5x table say 'Fizz' instead of the number. Say 'Buzz' if it is in 8s and 'Fizz Buzz' if it is in both.

Beat the calculator

One person works out the answer to a multiplication or division question with a calculator and one person works them out in their head. Who is the quicker?

• **MONEY**

Show children a set of coins. They add up the amount and tell you how much more is needed to make £1.

• **PLAYING CARDS**

Number bonds

Take out the picture cards from a deck of cards and include the jokers as zero.

- ✓ Play 'snap' by matching the number bonds
- ✓ Play the memory game to find matching number bonds

Multiplication and division

Take out the picture cards. Pick a card and state the multiplication and division fact your child is working on, e.g. pick the 8 card, so $4 \times 8 = 32$ and 32 divided by $8 = 4$.

Number bonds

Take out the picture cards. Pick two cards and use one to represent the tens and one to represent the units. e.g. pick a 3 and a 6 and use to make the number 36. Ask the child to find another pair to make a multiple of 10, such as 100, 90, 80, 70 etc.

Doubling/halving

Pick three cards, one to represent the thousands, one to represent the hundreds and one to represent the tens so that the number is always a multiple of 10. How quickly can you double and halve the number? e.g. show 8150

Multiples of 50 that total 1000

Make cards with multiples of 50 on them (e.g. 50, 100, 150 etc)

- ✓ child can select one at random and quickly calls out how many more are needed to make 1000
- ✓ ask children to sort them into pairs that total 1000 - how quickly can they do it? Can they beat their last time?

• **DOMINOES**


Number bonds

Connect two dominoes to make a number bond, e.g. $6 + 4 = 10$

Multiplication and division

Pick a domino and add the number of dots together then multiply by the table they are working on. To extend to all times tables, pick two dominoes to multiply the total number of dots on each together.

Doubling or halving

Pick a domino, e.g.  The number could be 32, 320 or 3200. Use any of these numbers to double or halve.

Number Bonds

Pick a domino from a set facing downwards. Choose one end to represent the tens and one to represent the units. Ask how much more is needed to make 60, 70, 80 etc.

• **DICE**

- ✓ Roll two dice, add them together to find the total. Child multiplies the total by 2, 4 or 10. Do they know the associated division fact?
- ✓ Roll a dice and generate a two-digit, three-digit or four-digit number. Children discuss whether the number is divisible by 2, 3, 4, 5, 6, 9 or 10

• **CHALLENGE**

- ✓ Start with any single digit number. Keep doubling. How far can you get? Can you get back to the beginning again?
- ✓ Choose any even 4 digit number and halve it. If the answer is even, halve it again; if it is odd add one and then halve. How far can you go?

• **TIMED GAMES**

How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?