Key Instant Recall Facts

Year 1 – Spring 1

I know 1 more and 1 less than a number to 20

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

For example:

17 + 1 =
12 – 1 =
8 + 1 =

Key Vocabulary

add / plus / count on
subtract / take away / count back

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?

https://www.topmarks.co.uk/maths-games/robot-more-or-less
https://ictgames.com/mobilePage/beeMoreOrLess/
https://www.topmarks.co.uk/learning-to-count/helicopter-rescue

Key Instant Recall Facts

Year 2 – Spring 1

I can add 1, 2, 3, 4 and 5 instantly.

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

For example:

28 + 1 =
75 + 3 =
69 + 4 =
26 + 5 =
18 + 2 =

32 + 3 =
74 + 1 =
26 + 2 =
51 + 5 =
13 + 4 =

Key Vocabulary

add / plus / count on
subtract / take away / count back

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 focus on adding one week and subtracting another. If you would like more ideas, please speak to your child's teacher.

Online games

https://www.topmarks.co.uk/maths-games/robot-more-or-less

https://www.topmarks.co.uk/learning-to-count/helicopter-rescue - using the count on and back option

Key Instant Recall Facts

Year 3 – Spring 1

I can find 10 or 100 more or less than a given number.

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

For example:

384 + 100 =
271 + 10 =
845 + 100 =
120 - 10 =
979 - 100 =
3256 - 100 =
45 - 10 =
100 + 463 =
100 + 786 =
100 + 76 =
10 + 381 =
100 + 457 =
_____ + 10 =758
_____ + 100 =256
_____ - 10 =279
_____ + 100 =643
_____ - 100 =486
_____ + 10 =775

Key Vocabulary

more / greater / count on
tens / hundreds
less / smaller / count back
digits change

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 could make a game : write a range of two and three digit numbers on small pieces of card or paper. Then write +10, +100, -10, -100 on separate pieces. Your child chooses one of each and calculates. You could set a timer to see how many they answer correctly in two minutes

Top Tips

WEBSITE:
https://www.topmarks.co.uk/maths-games/7-11-years/addition-and-subtraction

Key Instant Recall Facts

Year 4 – Spring 1

I know the multiplication and division facts for all times tables up to 12 × 12 .

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

1x1=1								
1x2=2	2x2=4							
1x3=3	2x3=6	3x3=9						
1x4=4	2x4=8	3x4=12	4x4=16					
1x5=5	2x5=10	3x5=15	4x5=20	5x5=25				
1x6=6	2x6=12	3x6=18	4x6=24	5x6=30	6x6=36			
1x7=7	2x7=14	3x7=21	4x7=28	5x7=35	6x7=42	7x7=49		
1x8=8	2x8=16	3x8=24	4x8=32	5x8=40	6x8=48	7x8=56	8x8=64	
1x9=9	2x9=18	3x9=27	4x9=36	5x9=45	6x9=54	7x9=63	8x9=72	9x9=81

Key Vocabulary

What is 12 **multiplied by** 6?

What is 7 **times** 8?

What is 84 **divided by** 7?

They should be able to answer these questions in any order, including missing number questions e.g. 7 × ◯ = 28 or ◯ ÷ 6 = 7.

Top Tips

www.ttrockstars.com- weekly homework to play 15 games

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 family of the day. If you would like more ideas, please speak to your child's teacher.

Speed Challenge – Take two packs of playing cards and remove the kings. Turn over two cards and ask your child to multiply the numbers together (Ace = 1, Jack = 11, Queen = 12). How many questions can they answer correctly in 2 minutes? Practise regularly and see if they can beat their high score.

Online games – There are many games online which can help children practise their multiplication and division facts. www.conkermaths.org is a good place to start.

Use memory tricks – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.

Key Instant Recall Facts

Year 5 – Spring 1

I can recall square numbers up to 12^2 and their square roots.

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

$1^2 = 1 \times 1 = 1$
$2^2 = 2 \times 2 = 4$
$3^2 = 3 \times 3 = 9$
$4^2 = 4 \times 4 = 16$
$5^2 = 5 \times 5 = 25$
$6^2 = 6 \times 6 = 36$
$7^2 = 7 \times 7 = 49$
$8^2 = 8 \times 8 = 64$
$9^2 = 9 \times 9 = 81$
$10^2 = 10 \times 10 = 100$
$11^2 = 11 \times 11 = 121$
$12^2 = 12 \times 12 = 144$

$\sqrt{1} = 1$
$\sqrt{4} = 2$
$\sqrt{9} = 3$
$\sqrt{16} = 4$
$\sqrt{25} = 5$
$\sqrt{36} = 6$
$\sqrt{49} = 7$
$\sqrt{64} = 8$
$\sqrt{81} = 9$
$\sqrt{100} = 10$
$\sqrt{121} = 11$
$\sqrt{144} = 12$

Key Vocabulary

What is 8 **squared**?

What is 7 **multiplied by itself**?

What is the **square root** of 144?

Is 81 a **square number**?

Children should also be able to recognise whether a number below 150 is a square number or not.

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.

Cycling Squares – At http://nrich.maths.org/1151 there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?

Use memory tricks – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.

Key Instant Recall Facts

Year 6 – Spring 1

I can convert between decimals, fractions and percentages.

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

$\frac{1}{2} = 0.5$

$\frac{1}{4} = 0.25$

$\frac{3}{4} = 0.75$

$\frac{1}{10} = 0.1$

$\frac{1}{5} = 0.2$

$\frac{3}{5} = 0.6$

$\frac{9}{10} = 0.9$

$\frac{1}{100} = 0.01$

$\frac{7}{100} = 0.07$

$\frac{21}{100} = 0.21$

$\frac{75}{100} = 0.75$

$\frac{99}{100} = 0.99$

Key Vocabulary

How many **tenths** is 0.8?

How many **hundredths** is 0.12?

Write 0.75 as a **fraction**?

Write ¼ as a **decimal**?

actions for ½, ¼, ¾ and any

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: start with tenths before moving on to hundredths. If you would like more ideas, please speak to your child's teacher.

Play games - Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap. Or make your own dominoes with fractions on one side and decimals on the other.