Key Instant Recall Facts

Year 6 – Autumn 1

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

The Year 6 children should already know **ALL** the times tables up to 12x12. The aim is for them to recall these facts **instantly**. This half term is a chance for Year 6 children to consolidate their knowledge of multiplication and division facts and to increase their speed of recall.

1	2	3	4	5	6
1 x 1 = 1	2 x 2 = 4	3 x 3 = 9	4 x 4 = 16	5 x 5 = 25	6 x 6 = 36
1 x 2 = 2	2 x 3 = 6	3 x 4 = 12	4 x 5 = 20	5 x 6 = 30	6 x 7 = 42
1 x 3 = 3	2 x 4 = 8	3 x 5 = 15	4 x 6 = 24	5 x 7 = 35	6 x 8 = 48
1 x 4 = 4	2 x 5 = 10	3 x 6 = 18	4 x 7 = 28	5 x 8 = 40	6 x 9 = 54
1 x 5 = 5	2 x 6 = 12	3 x 7 = 21	4 x 8 = 32	5 x 9 = 45	6 x 10 = 60
1 x 6 = 6	2 x 7 = 14	3 x 8 = 24	4 x 9 = 36	5 x 10 = 50	6 x 11 = 66
1 x 7 = 7	2 x 8 = 16	3 x 9 = 27	4 x 10 = 40	5 x 11 = 55	6 x 12 = 72
1 x 8 = 8	2 x 9 = 18	3 x 10 = 30	4 x 11 = 44	5 x 12 = 60	
1 x 9 = 9	2 x 10 = 20	3 x 11 = 33	4 x 12 = 48		
1 x 10 = 10	2 x 11 = 22	3 x 12 = 36			
1 x 11 = 11	2 x 12 = 24				
1 x 12 = 12					

7	8	9	10	11	12
7 x 7 = 49	8 x 8 = 64	9 x 9 = 81	10 x 10 = 100	11 x 11 = 121	12 x 12 = 144
7 x 8 = 56	8 x 9 = 72	9 x 10 = 90	10 x 11 = 110	11 x 12 = 132	
7 x 9 = 63	8 x 10 = 80	9 x 11 = 99	10 x 12 = 120		
7 x 10 = 70	8 x 11 = 88	9 x 12 = 108			
7 x 11 = 77	8 x 12 = 96				
7 x 12 = 84					

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. Children who have already mastered their times tables should apply this knowledge toanswer questions including decimals e.g. 0.7 × ◯ = 4.2 or ◯ ÷ 60 = 0.7

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 start with one particular times tables and ensure they know all of them before moving onto another times table.

Speed Challenge – Takea packs of playing cards. Turn over two cards and ask your child to multiply the numbers together (Ace = 1, Jack = 10, Queen = 11. King =12). How many questions can they answer correctly in 2 minutes? Practise regularly and see if they can beat their high score.

https://www.topmarks.co.uk/maths-games/daily10 - Level 6 Multiplication/Level 6 Division

https://play.ttrockstars.com/ - Children should be regularly practising their timestables on TTRS and improving their speed.

Key Instant Recall Facts

Year 6 – Autumn 2

I can identify common factor pairs of a number.

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

The factors of a number are all numbers which it can divide into with no remainder. E.g. the factors of **24** are 1, 2, 3, 4, 6, 8, 12, and 24. The factors of **56** are 1, 2, 4, 7, 8, 14, 28 and 56. The common factors of two numbers are the factors they share. E.g. **the common factors of 24 and 56 are 1, 2, 4 and 8.** The greatest common factor of 24 and 56 is 8. *Choose 2 other numbers from the times tables. Can your child find the factors, then the common factors and then the greatest common factor? Repeat!*	<u>Key vocabulary</u> factor common factor multiple greatest common factor

Children should be able to explain how they know that a number is a common factor.
E.g. 8 is a common factor of 24 and 56 because $24 = 8 \times 3$ and $56 = 8 \times 7$.

<u>Top Tips</u>

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? If your child is not yet confident with identifying factor pairs of a number, you may want to practise this first.

Lots of games here

https://www.mathsisfun.com/greatest-common-factor.html

http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html

https://www.topmarks.co.uk/maths-games/7-11-years/multiplication-and-division

Choose two numbers between 1 and 144. Take it in turns to name factors. Who can find the most?