



Key Instant Recall Facts

Year 6 – Summer

I can multiply and divide by using decimals.

Children will already know their times tables and this is another good opportunity to revise any tricky facts.

Examples of facts to learn include:

5 x 0.4	0.6 x 8	0.09 x 7
3.5 ÷ 7	4.8 ÷ 0.8	0.27 ÷ 9

Top tips to help with learning:

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.

Related facts:

Choose a tables fact – e.g. $6 \times 9 = 54$. Find as many related facts as you can using multiples of 10, 100 and 1,000 as well as decimals. How many facts can you find in 2 minutes? Can you find more facts the next time you repeat the task?

Odd one out:

Provide three facts, which is the odd one out? Why is this? Can you give another related fact?

E.g. Fact 1: $6 \times 0.8 = 4.8$ Fact 2: $0.8 \times 60 = 48$ Fact 3: $80 \div 6 = 48$

Web links:

[Multiplication Games for Year 6 Kids Online - SplashLearn](#)



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Year 6 – Summer

I know the divisibility tests for numbers to 10.

Rules to learn:

Divisible by:	If:	Examples:
2	The ones digit is even (0,2,4,6,8)	128 is 129 is not
3	The sum of the digits is divisible by 3	381 (3+8+1=12, and 12÷3 = 4) Yes 217 (2+1+7=10, and 10÷3 = 3 ¹ / ₃) No
4	The last 2 digits (tens and ones) are divisible by 4	1,312 is (12÷4=3) 7,019 is not
5	The ones digit is 0 or 5	175 is 809 is not
6	The number is divisible by both 2 and 3	114 (it is even, and 1+1+4=6 and 6÷3 = 2) Yes 308 (it is even, but 3+0+8=11 and 11÷3 = 3 ² / ₃) No
8	The last three digits (hundreds, tens and ones) are divisible by 8	109,816 (816÷8=102) Yes 216,302(302÷8=37 ³ / ₄) No
9	The sum of the digits is divisible by 9	1,629 (1+6+2+9=18, and again, 1+8=9) Yes 2,013 (2+0+1+3=6) No
10	The number ends in 0 in the ones.	220 is 221 is not
7	If you double the last digit and subtract it from the rest of the number and the answer is:0, or .divisible by 7 (Note: you can apply this rule to that answer again if you want)	672 (Double 2 is 4, 67-4=63, and 63÷7=9) Yes 905 (Double 5 is 10, 90-10=80, and 80÷7=11 ³ / ₇) No
11	If you sum every second digit and then subtract all other digits and the answer is: 0, or divisible by 11	1,364 ((3+4) - (1+6) = 0) Yes 3,729 ((7+9) - (3+2) = 11) Yes 25,176 ((5+7) - (2+1+6) = 3) No
12	The number is divisible by both 3 and 4	648 (by 3? 6+4+8=18 and 18÷3=6 Yes . by 4? 48÷4=12 Yes) so it is divisible by 12. 524 (by 3? 5+2+4=11 and 11÷3= 3 ² / ₃ No . Don't need to check by 4) so it is not divisible by 12.

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Make it fun:

Use a pack of cards, picture cards count as 0. Each player writes the numbers 1 to 12 on a piece of paper. Turn over 3 cards (this can be any agreed number) and use them to make a number eg: 855. Player 1 can cross out any of their numbers that this 3-digit number is divisible by. eg: 5 and then the next player can cross out a different number that it is divisible by. eg; 3.

Continue until there are no more numbers that the 3-digit number is divisible by and then generate a new number. The winner is the player who crosses out all of their numbers, 1-12, first.

Web links:

<http://www.mathsisfun.com/divisibility-rules.html>

<http://www.basic-mathematics.com/divisibility-rules-game.html> - Time yourself and try to improve

<https://www.ixl.com/math/grade-5/divisibility-rules>

Broaden and apply – enrichment

<http://nrich.maths.org/559>

<http://nrich.maths.org/480>