Starting Year 5... A Mental Maths Checklist

In Year 5 you'll be learning some pretty advanced maths: fractions, percentages... maybe even some algebra!

You'll find all this stuff much easier to learn if your mental maths is really good. Here's a quick checklist that will help you see if you're a mental maths whizz... or a bit rusty!

I can...	Here's how...	Examples...
Recall my times tables up to 12 x 12 super quickly	Practice really does make perfect with times tables! Download a times tables app or get someone to test you until you can reel them off without even thinking about it.	9 x 7 = ____ 12 x 4 = ____ 11 x 12 = ____ 5 x 7 = ____ 8 x 6 = ___ 9 x 3 = ____
Do short division in my head	Remember that short division is just backwards multiplication. If 2 x 8 = 16, then 16 ÷ 8 = 2	36 ÷ 4 = ____ 15 ÷ 3 = ____ 144 ÷ 12 = ____ 54 ÷ 9 = ____ 72 ÷ 8 = ____ 81 ÷ 9 = ____
Recall number bonds up to 100	These are the numbers that add together to make 100. Some are easy (like 50 + 50), some are less so (like 21 + 79).	51 + ____ = 100 ____ + 17 = 100 27 + ____ = 100 9 + ____ = 100 ____ + 39 = 100 82 + ____ = 100
Recall number bonds up to 1,000	These are the numbers that add together to make 1,000. Some are easy (like 500 + 500), some are less so (like 367 + 633).	230 + ____ = 1000 98 + ____ = 1000 378 + ____ = 1000 19 + ____ = 1000 ____ + 6 = 1000 751 + ____ = 1000
Double numbers quickly in my head	Doubling is the same as multiplying by two. To double a large number, break it up into its units, tens, hundreds etc., double each one in turn, then add them all together.	Double 732 = _____ Double 246 = _____ Double 1,804 = _____ Double 88 = _____
Halve numbers quickly in my head	Halving is the same as dividing by two. To halve a large number, break it up into its units, tens, hundreds etc., halve each one in turn, then add them all together.	Half of 528 = _____ Half of 1,306 = _____ Half of 96 = _____ Half of 2,514 = _____
Multiply numbers by 10, 100 and 1,000	To multiply a number by 10, move the digits **one space** to the **left.** To multiply a number by 100, move the digits **two spaces** to the **left.** To multiply a number by 1,000, move the digits **three spaces** to the **left.**	310 x 10 = ____ 250 x 100 = ____ 26 x 100 = ____ 19 x 1,000 = ____ 3 x 1,000 = ____ 860 x 10 = ____
Divide numbers by 10, 100 and 1,000	To divide a number by 10, move the digits **one space** to the **right**. To divide a number by 100, move the digits **two spaces** to the **right**. To divide a number by 1,000, move the digits **three spaces** to the **right**.	1,500 ÷ 100 = ____ 6,000 ÷ 1,000 = ____ 6,750 ÷ 10 = ____ 13,500 ÷ 10 = ____ 12,000 ÷ 100 = ____ 4,700 ÷ 100 = ____

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Answers

I can...	Here's how...	Examples...
Recall my times tables up to 12 x 12 super fast	Practice really does make perfect with times tables! Download a times tables app or get someone to test you until you can reel them off without even thinking about it.	9 x 7 = **63** 12 x 4 = **48** 11 x 12 = **132** 5 x 7 = **35** 8 x 6 = **48** 9 x 3 = **27**
Do short division in my head	Remember that short division is just backwards multiplication. If 2 x 8 = 16, then 16 ÷ 8 = 2	36 ÷ 4 = **9** 15 ÷ 3 = **5** 144 ÷ 12 = **12** 54 ÷ 9 = **6** 72 ÷ 8 = **9** 81 ÷ 9 = **9**
Recall number bonds up to 100	These are the numbers that add together to make 100. Some are easy (like 50 + 50), some are less so (like 21 + 79).	51 + **49** = 100 **83** + 17 = 100 27 + **73** = 100 9 + **91** = 100 **61** + 39 = 100 82 + **18** = 100
Recall number bonds up to 1,000	These are the numbers that add together to make 1,000. Some are easy (like 500 + 500), some are less so (like 367 + 633).	230 + **770** = 1000 98 + **902** = 1000 378 + **622** = 1000 19 + **981** = 1000 **994** + 6 = 1000 751 + **249** = 1000
Double numbers quickly in my head	Doubling is the same as multiplying by two. To double a large number, break it up into its units, tens, hundreds etc., double each one in turn, then add them all together.	Double 732 = **1,464** Double 246 = **492** Double 1,804 = **3,608** Double 88 = **176**
Halve numbers quickly in my head	Halving is the same as dividing by two. To halve a large number, break it up into its units, tens, hundreds etc., halve each one in turn, then add them all together.	Half of 528 = **264** Half of 1,306 = **653** Half of 96 = **48** Half of 2,514 = **1,257**
Multiply numbers by 10, 100 and 1,000	To multiply a number by 10, move the digits **one space** to the **left.** To multiply a number by 100, move the digits **two spaces** to the **left.** To multiply a number by 1,000, move the digits **three spaces** to the **left.**	310 x 10 = **3,100** 250 x 100 = **25,000** 26 x 100 = **2,600** 19 x 1,000 = **19,000** 3 x 1,000 = **3,000** 860 x 10 = **8,600**
Divide numbers by 10, 100 and 1,000	To divide a number by 10, move the digits **one space** to the **right**. To divide a number by 100, move the digits **two spaces** to the **right**. To divide a number by 1,000, move the digits **three spaces** to the **right**.	1,500 ÷ 100 = **15** 6,000 ÷ 1,000 = **6** 6,750 ÷ 10 = **675** 13,500 ÷ 10 = **1,350** 12,000 ÷ 100 = **120** 4,700 ÷ 100 = **47**

Bit rusty? Head to www.fraserstevenslearning.com/fsl_11_online where we've got loads of materials that will help get you into shape in no time at all!