Mental Maths Challenge Card

Orange Booklet

Improve your mental maths skills by learning your number facts off by heart. Practice at home and when you are ready to be tested ask somebody to sign the booklet. If you know the facts off by heart your teacher will give you a sticker and you will be ready to move on. When you have completed all the challenges in this booklet you will get a certificate.

Name: _____

Class: _____

Date started: _____

Date completed:_____

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Guidance for Parents

Knowing number facts off by heart will make your child more confident with maths in class. They are also a necessary foundation for success in written methods which are introduced from year three.

Children who can calculate addition and subtraction facts mentally are less likely to make errors when working with larger numbers. Children who know their times tables will find formal multiplication and division easier to understand and will be able to work with fractions and decimals, manipulating numbers with confidence.

When working on mental methods at home 'little and often' is the key. You can practice anywhere – in the car, walking to school, cooking tea, waiting in a queue, in the bath etc. Try to make it fun and use games. There are also lots of on-line games that can help.

Remember lots of praise for improvement and the learning process.

Good luck and have fun!

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Number Facts	Signed by Parent	Date Tested in school	Sticker
Count forwards and backwards in 10s, 100s, 1,000s, from any number to 1,000,000			
Square numbers to 12x12 e.g. 1x1, 2x2			
Square roots of numbers to 144 e.g. $\sqrt{49}$			
Add numbers to 10 with 1 decimal place e.g. 3.5 + 6.9			
Subtract numbers to 10 with 1 decimal place e.g. 6.9 - 3.5			
Identify factors of numbers to 100 e.g. factors of 24 are 1, 24, 2, 12, 3, 8, 4, 6			
Recall number bonds to 1 for numbers with 2 decimal places e.g. 0.15 + ? = 1			
Find $\frac{1}{4}$ or $\frac{3}{4}$ of a multiple of 4 to 1,000 e.g. $\frac{3}{4}$ of 640			
Recall all prime numbers to 47			

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Number Facts	Signed by Parent	Date Tested in school	Sticker
Find fractions of amounts where the numerator is 1 e.g. $\frac{1}{3}$ of 24, $\frac{1}{8}$ of 40			
Multiplication and division facts for the 12 times table e.g. ? x 12 = 72, ? ÷ 12 = 6			
Multiplication and division facts of all tables to 12			
Use the 9 times table when multiplying and dividing decimals 0.5 x 9, 7.2 ÷ 9			
Use the 7 times table when multiplying and dividing decimals 0.4 x 7, 3.5 ÷ 7			
Use the 12 times table when multiplying and dividing decimals 0.4 x 12, 4.8 ÷ 12			
Know common fraction/decimal equivalents e.g. $\frac{1}{5}$=0.2, $\frac{1}{8}$=0.125			
Multiply and divide by 100 up to 2 decimal places e.g. 2.4x100, 28÷100			

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