Parent Information - Maths Facts Booklet Year Five

Each year group has an individual maths booklet and is stuck in the back of Spelling Books. The Maths Planet Booklets are pitched in line with year group expectations. They contain the maths facts from the National Curriculum and these will be taught during the year in Maths. They are designed to support parents to reinforce this learning outside school. The children need to be very secure in their knowledge and ability to recall (quickly) in order to 'achieve' each objective.

Teachers will indicate in the Maths Planet Booklet which facts need to be practised at home. Children need to show that the learning has been embedded. Once you feel your child is confident with the fact put a date in the 'Home' column. The dates in the 'Home' column must be at least two weeks apart to show they have practiced over a period of time. In Years 4, 5 and 6, the 'Me' column is for the child to sign once they feel confident they know the fact. When a fact is tested in school, the teacher will either put a sticker on the 'star' on the front cover or date the completed fact to show your child has been tested and has been successful. **This can only be done in school!**



Multiplication Tables	Further explanation	/ Ideas of how to practise
Speed grid multiplication tak	oles. Trying to beat time.	Grid size increases with once 2mins is reached.

Place Value	Further explanation / Ideas of how to practise	
Read and write numbers to at least 1 000 000 and say the value of each digit.	Identify ones, tens, hundreds, thousands, tens of thousands etc. 13, 123 has 3 thousands	
Order and compare numbers to at least 1 000 000	Write a set of numbers up to 1 million – order the nmbers	
Count forwards and backwards in steps of 10 for any given number up to 1 000 000.	345, 355, 365, 375 12345, 12355, 12365, 12375 99999, 99989, 99979, 99969	
Read and write Roman numerals up to 1000.	I = 1 V = 5 X = 10 L = 50 C = 100 D = 500 M = 1000 so 47 = XXXXVII 89 = LXXXIX 90 = XC	
Read and write dates using Roman numerals	e.g. 1995 = 1000 + 900 + 90 + 5 1000 = M 900 = CM 90 = XC 5 = V 1995 = MCMXCV	

Multiplication & Division	Further explanation / Ideas of how to practise	
Multiply and divide numbers by	e.g. 24 x 1000 = 24,000 1.3 x 100 = 130	
10, 100 or 1000.	53 ÷ 1000 = 0.053 3.4 ÷ 100 = 0.034	
Know by heart all the squares of numbers between 1 and 12.	e.g. 1 x 1 = 1, 4 x 4 = 16, 6 x 6 = 36	
Recognise and use cube numbers and notation.	e.g. $3 \times 3 \times 3 = 27$ or $3^3 = 27$, $5 \times 5 \times 5 = 125$ or $5^3 = 125$	
Recall prime numbers up to 19.	2, 3, 5, 7, 11, 13, 17, 19 Numbers that only have 1 x themselves as factors.	
Find all factor pairs.	Find all factor pairs. This means pairs of numbers that when multiplied make the sate total. e.g. to make 20: 1 x 20, 2 x 10, 5 x 4	

Fractions and Decimals	Further explanation / Ideas of how to practise		
Know that 10 tenths are equivalent to 1/ Know that 1 is 10 times the size of 0.1	"10 tenths is equal to 1 one." "1 is 10 times the size of one-tenth." "One-tenth is 10 times the size of one-hundredth."		
Know that 100 hundredths are equivalent to 1 one / Know that 1 is 100 times the size of 0.01	"1 is 100 times the size of one-hundredth." "100 hundredths is equal to 1 one."		
Know that 10 hundredths are equivalent to 1 tenth/ Know that 0.1 it 10 times the size of 0.01	"10 hundredths is equal to 1 tenth."		
Count using simple fractions and decimals forwards and	3, 2 1/2, 2, 1 1/2, 1, 1/2, 0		
backwards bridging zero.	0.5, 0.4, 0.3, 0.2, 0.1, 0, -0.1, -0.2 -0.3		
Compare numbers with the same numbers of decimal places (up to two decimal places).	e.g 12.34 > 12.13 5.27 < 6.01		
Know the decimals for ¼, ½, ¾, 1/5 and 1/10 (1/4 = 0.25; ½ = 0.5; ¾ = 0.75, 1/5 = 0.2, 1/10 = 0.1)	1/4 = 0.25		

	Geometry Further explanation / Ideas of how to practise		
1	Identify pairs of parallel lines.	Lines that will never meet and are always the same distance apart.	
ieck-up fron	Identify pairs of perpendicular lines.	Lines that meet at a right angle (90°)	
Ċ	Identify right, acute and obtuse angles	Right angles are 90° Acute angles less than 90° Obtuse angles between 90° and 180°	



		Measure	Further explanation / Idea; of how to practise
	$mm\leftrightarrowcm$	10mm = 1cm	
		100cm = 1m	
	$cm\leftrightarrowm$	50 cm = ½ m	
rom Y4		25cm = ¼ m	
	m ↔ km	1000m = 1km	
		500m = ½ km	
up f		250m = ¼ km	
Check-	ml ↔ l	1000ml = 1l.	These facts need to recalled quickly so they can be applied to problem solving
		500ml = ½ l	
		250ml = ¼ l	
	g ↔ kg	1000g = 1kg	
		500g = ½ kg	
		250g = 1/4kg	
c ↔ erial	1 inch is approximately 2.5 centimetres		
	1 incn ≈ 2.5 cm 1 kilogram is approximately 2 pounds		
etri npe	1 kg ≈ 2 lbs		
r a	1 pint is approximately 560ml 1 pint ≈ 560ml		



Updated: September 2021