Year 6 Maths Prompts: Monday 8th June-Friday 19th June 2020

During these 2 weeks we are revisiting our multiplication and division knowledge. This includes decimals and fractions, and finding fractions and percentages of amounts, so these pages of maths prompts are here to provide you with key reminders on these topics too. Where relevant, we have included links to websites where you can watch videos and / or read through additional information <u>before</u> tackling the tasks that you have been assigned on mathletics and Purple Mash.

Multiply up to 4-digit by 2-digit			Order of Operations		
			В	Brackets	10 × (4 + 2) = 10 × 6 = 60
1 2 2			0	Order	$5 + 2^2 = 5 + 4 = 9$
× 2		Start with the ones.	D	Division	10 + 6 ÷ 2 = 10 + 3 = 13
3 0 8		154 × 6 = 924 154 × 20 = 3080	м	Multiplication	10 - 4 × 2 = 10 - 8 = 2
4 0 0) 4	3080 + 924 = 4004	Α	Addition	10 × 4 + 7 = 40 + 7 = 47
1 1			S	Subtraction	10 ÷ 2 - 3 = 5 - 3 = 2
Short Division			inkl -	•	olus others such as the grid e-capped on at <u>BBC</u>
Start from the left. 4 4 0 5 12 5 2 48 6 60 4 4 0 5 5 12 = 0 r5 12 5 2 48 6 60 48 ÷ 12 = 4 6 ÷ 12 = 0 r6				refresh your mem scroll down to re <u>How to visualise r</u> <u>How to visualise</u>	l Learner's guides will help hory, watch the video then ead the information below: <u>multiplication with an array.</u> <u>division with an array.</u> <u>ar model to solve problems.</u>

Mrs Town's maths group may find these BBC Bitesize learner's guides helpful reminders; for each one there is a video to watch then you can scroll down to read



the information underneath: <u>'How to multiply and divide by 0,1, 10 and 100'</u> <u>'How to multiply in your head'</u>





<u>'How to work our division with remainders'</u>
<u>'Short division using written methods'</u>



Decimals Reminders:

twinkl

Decimals

Multiplying and Dividing by 10, 100 and 1000

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
			2	- O	8	
		2	о О	. 8		
			2	. 0	8	
Thousands	Hundreds	Tens	Ones .	tenths	hundredths	thousandths
		4	3	- 5		
4	× 100 3	5	о.			
		4	3	+ 100		
Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
			1	. 3	5	1
	× 10					
1	3	5	1.	•		
				+ 10		
			1.	. 3	5	1

Place value is still the most important thing when multiplying and dividing decimals; as long as you have your digits in the correct place then the method is the same.

For further support with this, click here <u>https://whiterosemaths.com/homelearning/year-6/</u> - go to 'Summer Term-Week 5 (w/c 18th May) and watch the videos for multiplying and dividing decimals (Lessons 1, 2 and 3.)

Multiplying Decimals by Integers

	3 .	. 4	5
×			3
1	0	. 3	5
		-	



Fractions Reminders / Prompts:

Below you will find examples taken from twinkl.com on how to multiply and divide fractions. For further support with this, click here https://whiterosemaths.com/homelearning/year-6/ – go to 'Summer Term-Week 4 (w/c 11th May) and watch the videos for multiplying and dividing fractions (Lessons 1, 2 and 3.) There is also a simple BBC Bitesize learner's guide. And to help you embed your understanding, why not watch 'How to multiply fractions by <u>folding paper'</u>?



Fractions to Percentages



watch the lesson here <u>https://</u> whiterosemaths.com/ <u>homelearning/year-6/</u> - go to 'Summer Term- Week 4 (w/c 11th May)' Lesson 4.

Other useful reminders:

 $\frac{1}{5}$ of 15 = 3

 $3 \times 3 = 9$

 $\frac{3}{5}$ of 15 = 9

Mental Calculations and	Reason from Known Facts		
Estimation	90 ÷ 10 = 9 so 90 ÷ 20 = 4.5 and 90 ÷ 5 = 18		
Order of calculations: 50 × 34 × 2 = 50 × 2 × 34 = 100 × 34 = 3400	16 × 9 = 144 so 1.6 × 9 = 14.4		
Money: £8.99 + £3.49 = £12.48	4352 ÷ 17 = 256		
Use £9 + £3.50 = £12.50 and subtract 2p	so 256 × 18 = 4352 + 256 = 4608		
Estimate on a number line	3786 + 2850 = 6636		
-8 0 8 16 20 24	so 4786 + 2850 = 7636		
	and 2786 + 3850 = 6636		
Subdivide line to estimate: 17	and 8636 - 3786 = 4850		

Percentages Reminders / Prompts:

