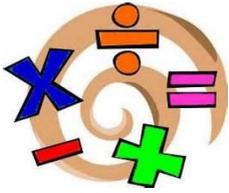# Learn Its

Year 4   Summer term

The aim of these **'Learn Its'** which are focused on in school and for **Home Learning** is to give the children **regular** but **short practice** at key maths facts. Some of the facts may seem quite basic, but this practice will help them develop their **confidence** and **recall**, which will help them **apply** them in their maths learning.

Wherever we can we want to make this **practice fun** and **practical**. Please feel free to make up your own games / activities, or adapt / swap the ones suggested below. We also need lots of opportunities to **talk** about the maths and to show that we as adults **enjoy** it too.

Count backwards through zero to include negative numbers.

- Look at temperature gauges, whether in real life or online. Ask your child to count backwards from the daytime temperature to the night time temperature
- Roll a dice or pick a card at random. Ask your child to count from the number to the equivalent negative number. *(E.g. 4, 3, 2, 1, 0, -1, -2, -3, -4)*

Read Roman numerals to 100 (I to C).

- Ask your child where we see Roman numerals *(e.g. clocks, the year at the end of films / programmes)*
- I = 1.   V = 5.   X = 10.   L = 50.   C = 100
- Play a 'code game' where you write a number or a number sentence in Roman Numerals and your child translates it into our modern numbers. *(E.g. XXXIV + LI = LXXXV)*

Recognise and use factor pairs.

- Factors are two numbers that multiple together to make the number you are focusing on. It also means that the number you are focusing on can be divided exactly by the two factors. *(E.g. 3 and 4 are factors of 12)*
- Which numbers up to 20 (or up to 50) have only 2 factors? Do some only have one factor? Which numbers have the most factors?

Add and subtract fractions with the same denominator.

- Start with drawn versions of $\frac{1}{2}$, 1/3, $\frac{1}{4}$ and 1/5. *What would happen if you had: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ = or 4/5 – 1/5 =*
- Create questions at random *(or by selecting a card / rolling a dice to choose the denominator)*. Write down the question and ask your child to solve it. If they are stuck they could draw the fractions as well.

Divide a one- or two-digit number by 10 and 100.

- Discuss that when numbers are divided by 10 all the numbers move down one column. When divided by 100 all the numbers move down two columns. *(E.g. 460 ÷ 10 = 46 and 700 ÷ 100 = 7)*
- Once your child is confident with this, resulting in answers that only include whole numbers, discuss and give them questions which also result in decimals. *(E.g. 245 ÷ 10 = 24.5 and 630 ÷ 100 = 6.3)*

Compare numbers with the same number of decimal places up to two decimal places.

- Look at a range of prices for different items *(either at home or at the supermarket)*. Which is the cheapest, which is the most expensive? Can you put 3-5 items in order
- Measure the length of different pieces of furniture in the house, or heights of everyone in the family, recording them in metres and centimetres *(using decimals)*. Put the pieces of furniture in order of length. Who is the tallest? Shortest? Can you put everyone in height order?

Find the area of squares and rectangles by counting squares.

- Ask your child to draw squares and rectangles on squared paper. Find the perimeter by counting the number of squares around the outside of the shape. Find the area by counting the squares inside the shape.
- Find square and rectangular objects at home. Trace around the outline onto squared paper. Then find the perimeter and area of the object as above

Interpret and present discrete and continuous data on time graphs.

- Look at graphs in papers, magazines and online together. Discuss what the information is showing. *(E.g. Changes in temperature over a day when planning a day out. Increase in points in a league of a favourite sports team)*

Array

an arrangement of a set of numbers or objects in rows and columns

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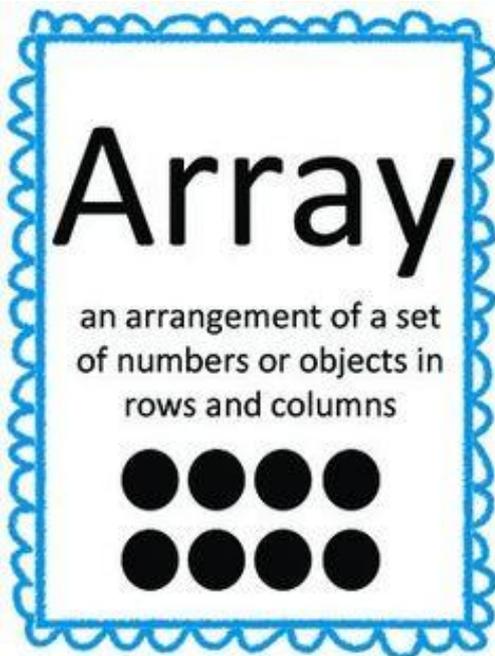
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100