Fluency

Parent Workshop

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Overview

- Curriculum expectations
- Why learn times tables?
- Teaching techniques
- Ways to support at home

Curriculum Expectations

Year	Expectation	Examples
2	10, 5 and 2 times tables	10 x 4 = ☐ 28 ÷ 2 = ☐ ☐ ÷ 5 = 9 How many 2s in 24?
3	10, 5, 2, 4, 8 and 3 times tables	8 x 4 = ☐ 16 ÷ 4 = ☐ 21 ÷ ☐ = 3 How would you use 5 x 3 = 15 to work out 50 x 3?
4	10, 5, 2, 4, 8 , 3, 6, 9, 7, 11 and 12 times tables	7 x 6 = ☐ 54 ÷ 9 = ☐ 32 ÷ ☐ = 8 0.2 x 8 = ☐ 320 ÷ 4 = ☐
5 & 6	Application of all times table facts to 12 x 12	96 ÷ 12 = ☐ 9^2 = ☐ 9,000 x 12,000 = ☐ 0.7 x 0.7 = ☐ 540 ÷ ☐ = 60

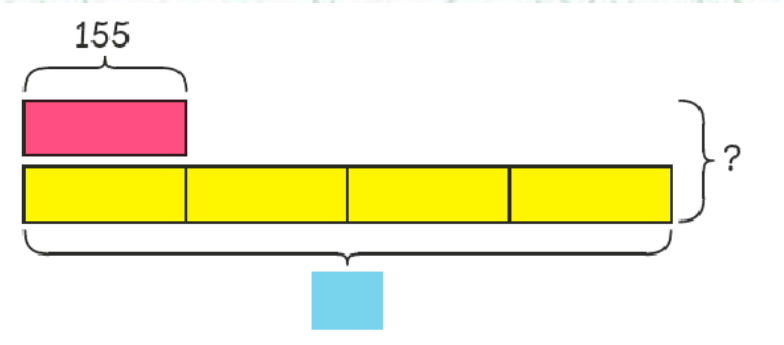
In September the Department for Education announced that the Times Tables Check will now be administered for children in Year 4, starting in the 2019-20 academic year.

Why learn them?

Being fluent in your times tables is **essential** for success in Mathematics.

Children who can't recall their times tables struggle in all areas of mathematics, due to cognitive overload.

Lulu has 155 beads.
Holly has 4 times as many beads as Lulu has.
How many beads do Lulu and Holly have altogether?

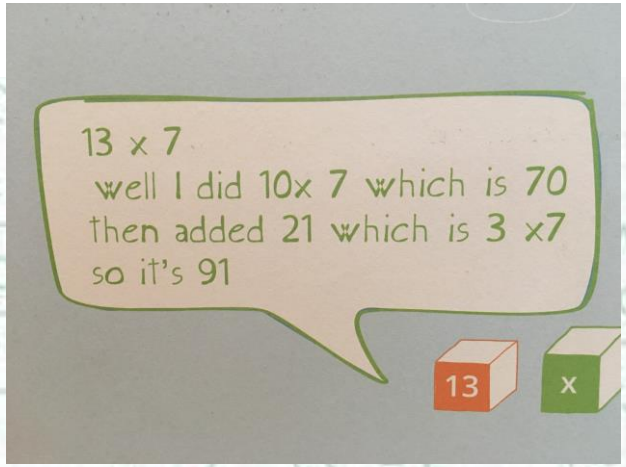


Why learn them?

- Automaticity with facts is essential so the mind is free to think about concepts.
- Children need to move away from inefficient counting strategies as quickly as possible.

<u>BUT knowing your times tables is so much more than just memorisation.</u>

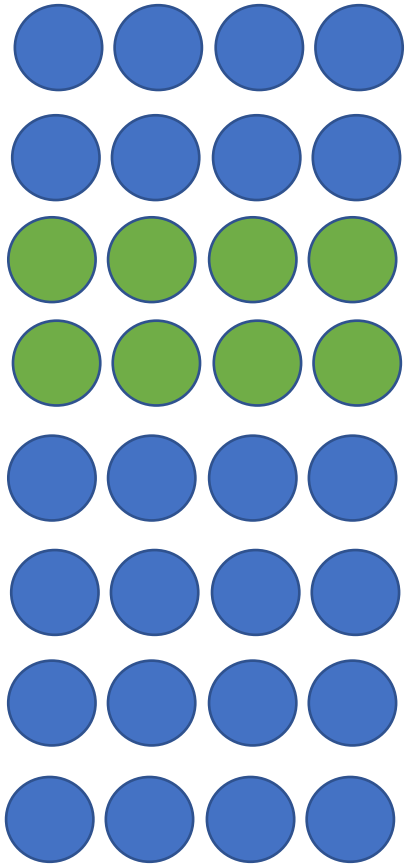
Children aren't just thinking "I know this fact" but "I know this fact therefore I can work out this…"



Teaching Techniques

How do we do that in school?

Learning times tables should be fun and enjoyable!

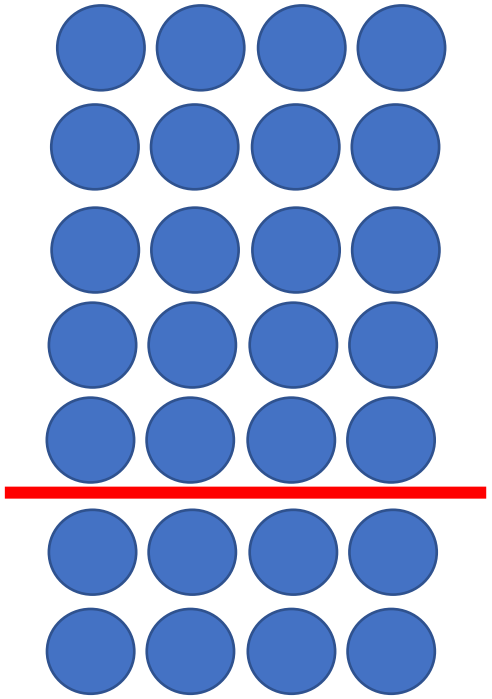


1 x 4 = 4

2 x 4 = 8

4 x 4 = 8 + 8 = 16

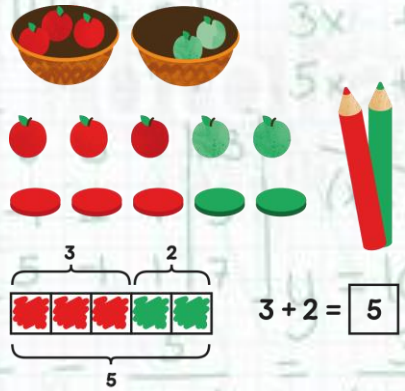
8 x 4 = 16 +16 = 32



5 x 4 = 20

2 x 4 = 8

7 x 4 = 20 + 8 = 28



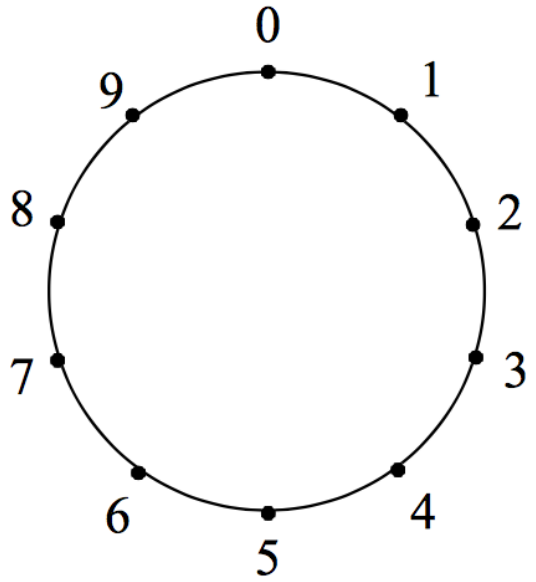
Teaching Techniques

Pattern spotting

Exploring the rich patterns of multiplication deepens conceptual understanding and makes it fun/visual.

8 TIMES TABLE - 100 SQUARE

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



How can I help at home?

Games

- Times table bingo
- Matching cards *(youcubed- Fluency without fear)*
- Pebble Score

How can I help at home?

- Reinforcing the importance of times tables
- Make it fun!
- Having times tables displayed at home
- Chanting/ singing times tables- *Maths Rockx*
  - start at 0x and say the whole number sentence
- Times tables online games/ apps
  - Hit The Button (quick fire practice)
  - www.tuva.org.uk

Knowledge is power and understanding is key.