



# Multiplication Tables Parent Workshop

THURSDAY 6<sup>TH</sup> FEBRUARY 2020

“At the end of the day, the most overwhelming key to a child's success is the positive involvement of parents.”

- Jane D. Hull

The DfE state that the motivation behind the MTC is purely to allow teachers a chance to identify children who need some more help with their times tables to stop them from falling further behind their peers as they move up to Year 5 and 6 as well as beyond.



**Department  
for Education**



# National Curriculum Expectations

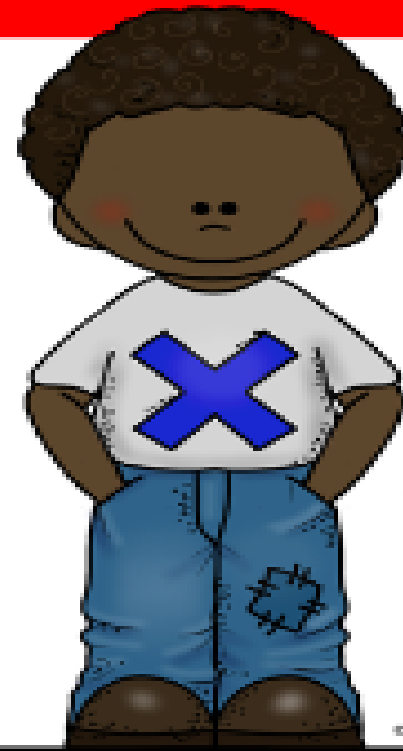
Year Group	Expectation
Year 1	Count in multiples of <b>2, 5 and 10</b> . Recall and use all <b>doubles to 10</b> and corresponding halves.
Year 2	Recall and use multiplication and division facts for the <b>2, 5 and 10</b> times tables including recognising <b>odd and even numbers</b> .
Year 3	Recall and use multiplication and division facts for the <b>3, 4 and 8</b> times tables.
Year 4	Recall and use multiplication and division facts for tables up to 12 x 12
Year 5	Revision of all times tables and division facts up to <b>12 x 12</b>
Year 6	Revision of all times tables and division facts up to <b>12 x 12</b>



# Multiplication Lingo!

## multiplication

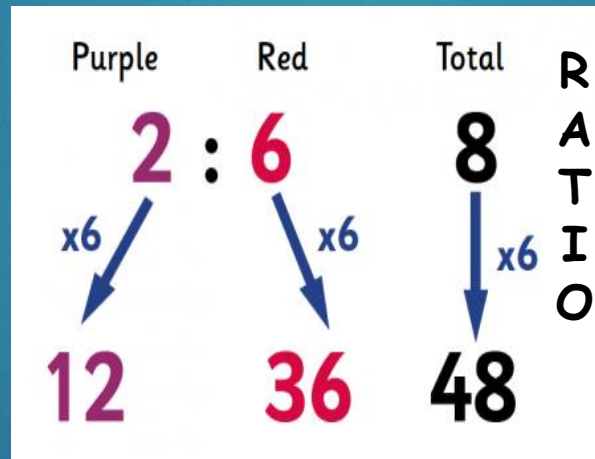
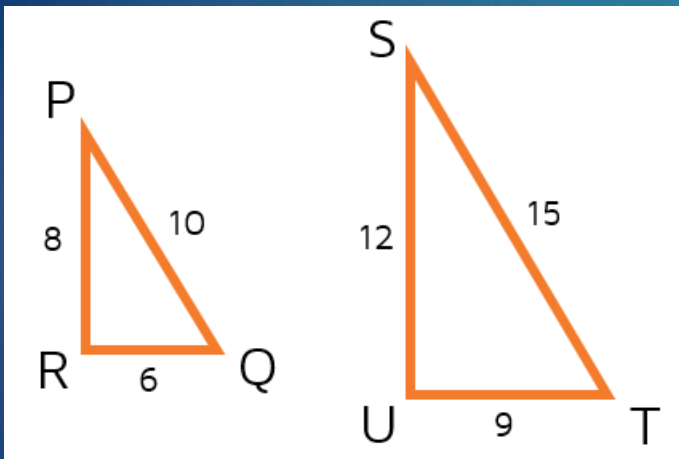
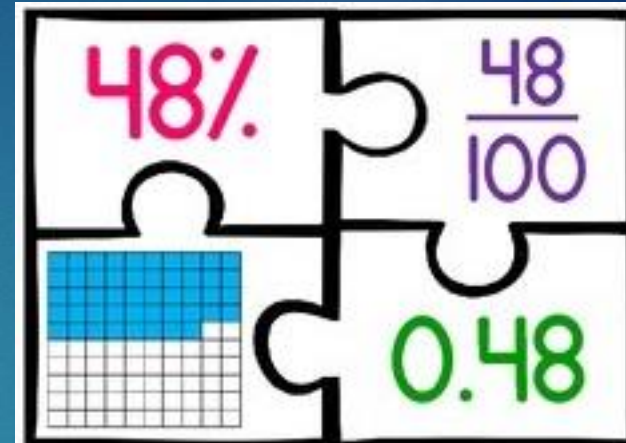
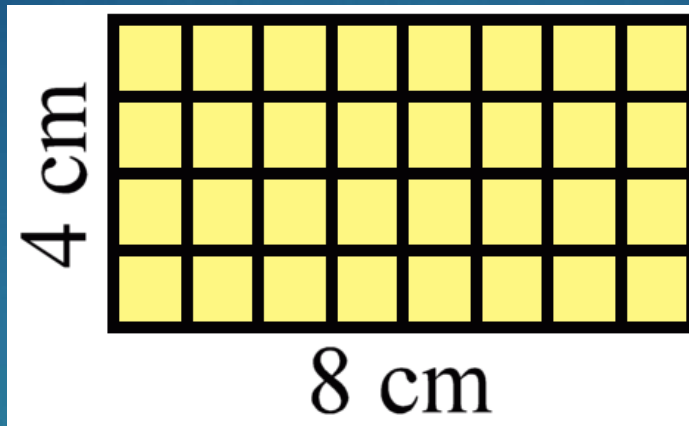
- multiply
- lots of
- times
- groups of
- product
- multiple of
- array
- repeated addition





✓

$$\begin{array}{r}
 756 \\
 \times 32 \\
 \hline
 1512 \\
 + 22680 \\
 \hline
 \boxed{24192}
 \end{array}$$



**Year 6  
SATs**



**Why is Multiplication important?**



# Multiplication Tables Check (MTC)

- ▶ The **Multiplication Tables Check (MTC)** will be administered to children in **Year 4**, starting in the **2019-20 academic year**. This will take place between the 8<sup>th</sup> and 26<sup>th</sup> June 2020. Exact date TBC.
- ▶ The purpose of the MTC is to determine whether Year 4 pupils can recall their multiplication tables up to 12x12 fluently as outlined in the National Curriculum.
- ▶ Children will be tested using a computer, answers will be entered using a keyboard or by pressing digits using a mouse. They will have to answer multiplication questions against a clock. The test will last no longer than 5 minutes; children will have **6 seconds** to answer each question in a series of 25, with a 3 second gap between questions.





# During the check...

- There will always be questions from the 3, 4, 5, 6, 7, 8, 9, 11 and 12 multiplication tables in each check.
- There will be no questions from the 1 times table (i.e  $1 \times 8$  or  $8 \times 1$ ).
- The 6, 7, 8, 9 and 12 times tables are more likely to be asked.
- There will only be a maximum of 7 questions from the 2, 5 and 10 times tables.
- Reversal of questions will not feature in the same check.



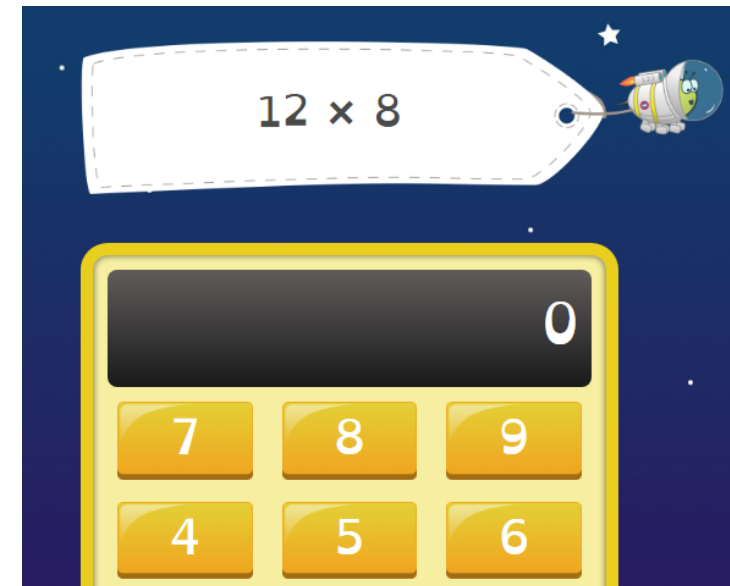
# The Test...

- ▶ Each pupil will be randomly assigned a set of questions.
- ▶ Children will only face multiplication statements in the check (not related division facts).
- ▶ Pupils will not see their individual results when they complete the check.



# Before the test

- ▶ Children can practise before taking the check
- ▶ There will be a 'try it out' area the children can use to become familiar with the timings and layout of the check.





# How we teach multiplication

## Teaching times tables facts first:

- ▶ Counting and looking for patterns
- ▶ Repeated addition
- ▶ Multiplication is commutative
- ▶ Multiplication is the inverse of division
- ▶ Number families

## Use of different representations

- ▶ Concrete manipulatives such as counters or multilink cubes
- ▶ Pictorial representations such as arrays

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



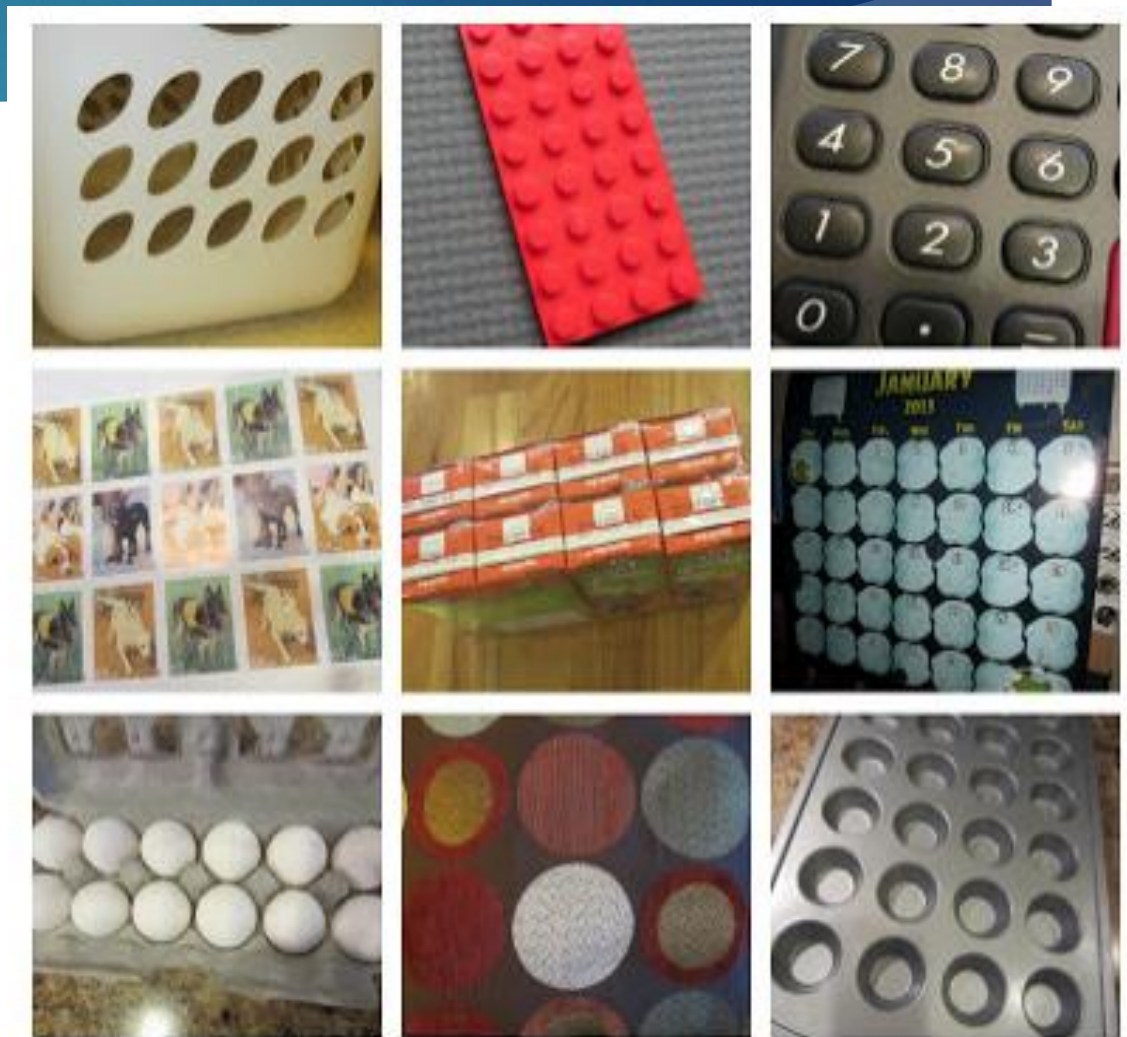
# Array patterns

Commutative Property  
 $5 \times 3 = 15$

Repeated Addition  
 $3 + 3 + 3 + 3 + 3 = 15$

Groups of:  $3 \times 5 = 15$  An Array

3 groups of 5





# Using concrete manipulatives to help



$$3 \times 6 = 18$$

$$3 \times 4 = 12$$







**Any Questions?**



# How can you help at home?

- ▶ Please help yourself to a handout which details useful websites, games and information about the MTC.
- ▶ All of the information will be uploaded to Class Dojo and the School Website.
- ▶ Please continue to help your child practice their times tables at home.

