



Tonwell St Mary's CE Primary School

Times tables
Information Session for Parents

Why are Times Tables so important?

- Building blocks for maths.
- Proven to be the most valuable connections that a child can make in their maths 'career'.
- Too many children are reaching Year 6 and further education without having a sound understanding of times tables.
- These children therefore struggle with making connections to other areas in maths.

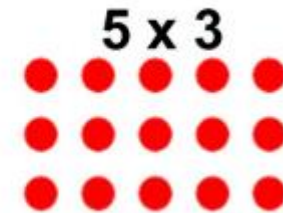
How we teach tables at Tonwell?

Reception

- Grouping objects in 2s
- Counting songs in 2s, 5s and 10s

KS1

- Visual representation using arrays
- Y2 – begin to formally record times tables and divisions



Order of teaching

KS1

- 2,5,10, 3s
- KS2
- 4, 8
- 6, 7, 9
- 11, 12
- Make patterns and links between the tables as they progress
- Hardest multiple = x7, x8, x9 SATS test focus

End of KS1 Example questions

Match each egg box to the correct multiplication.

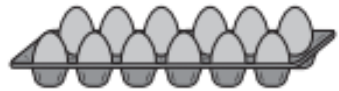
One is done for you.



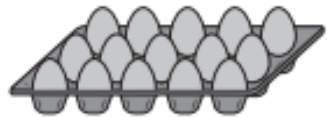
6×2



5×3



3×2



5×2

Callum and Ahmed share these biscuits equally.

How many biscuits do they each get?



biscuits

Ben has **five** marbles.



Kemi has **seven times** that number.

How many marbles does Kemi have?

marbles

How do we teach tables at Tonwell?

LKS2

- Children count up and down in the number of the tables
- Create arrays, use cubes, shade 100 squares – concrete and visual
- Counting stick work as whole class
- Learn the pattern and links of the times table
- 3 x week practice and speed test.

UKS2

- Learn the pattern and links of the times table
- At least weekly in class practice and speed test
- Rehearse for self in spare time in class / home
- REVIEW and REVIST to consolidate.

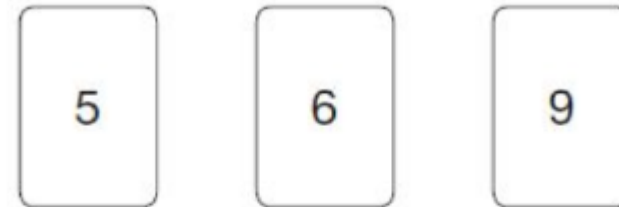
End of KS2 Expectations - Multiplication

In this grid, there are four multiplications.

Write the **three** missing numbers.

4	×	8	=	
×		×		
3	×		=	21
=		=		
		56		

Chen uses these digit cards.



She makes a 2-digit number and a 1-digit number.

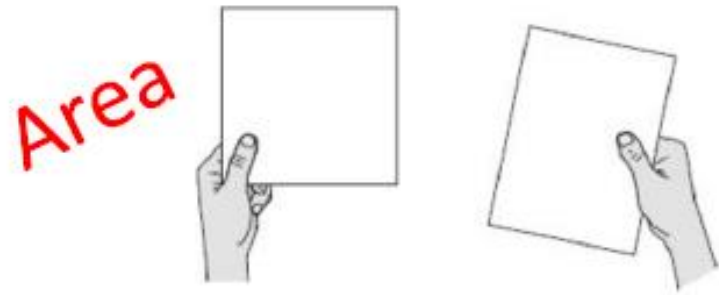
She multiplies them together.

Her answer is a **multiple of 10**

What could Chen's multiplication be?



End of KS2 Expectations – Applying

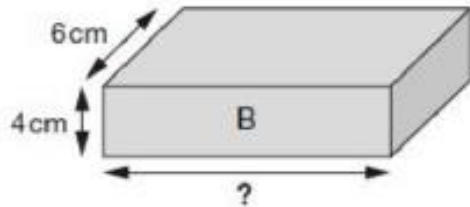
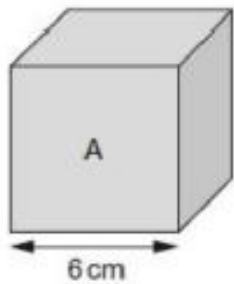


A square tile measures 20 cm by 20 cm.

A rectangular tile is 3 cm **longer** and 2 cm **narrower** than the square tile.

What is the **difference in area** between the two tiles?

Cube A and cuboid B have the same volume.



Volume

Not to scale

Calculate the missing length on cuboid B.

Write the **two missing values** to make these equivalent fractions correct.

$$\frac{\square}{3} = \frac{8}{12} = \frac{4}{\square}$$

Fractions

The length of a day on Earth is 24 hours.

The length of a day on Mercury is $58\frac{2}{3}$ times the length of a day on Earth.

What is the length of a day on Mercury, in **hours**?

Time

What is the Times Table Check?

- A compulsory 'test' for year 4 students that is taken in June. There is a 3 week window for the school to administer the test (8th – 26th June)
- The check will be administered on a computer or tablet
- Assess children's knowledge of times tables up to 12x12
- Made up of 25 questions
- Children will have 6 seconds to answer each question
- Children will take the test in a small group or on a 1:1 basis
- There is a pause button available in between questions
- Some children may be eligible for an 'inputter' to assist them

What will the test look like?

Multiplication Tables Check

$7 \times 4 =$

 Play game

1	2	3
4	5	6
7	8	9
ENTER	0	DELETE

Question 3 of 25 MATHSFRAME

There is key emphasis on the 6, 7, 8, 9 and 12 times tables

Multiplication Table	Minimum number of items in each form	Maximum number of items in each form
1	Not applicable	Not applicable
2	0	2
3	1	3
4	1	3
5	1	3
6	2	4
7	2	4
8	2	4
9	2	4
10	0	2
11	1	3
12	2	4

Major Milestones – National Curriculum

Year 1:

- count in multiples of twos, fives and tens
- solve simple multiplication and division using objects, pictures and arrays with support

Year 2:

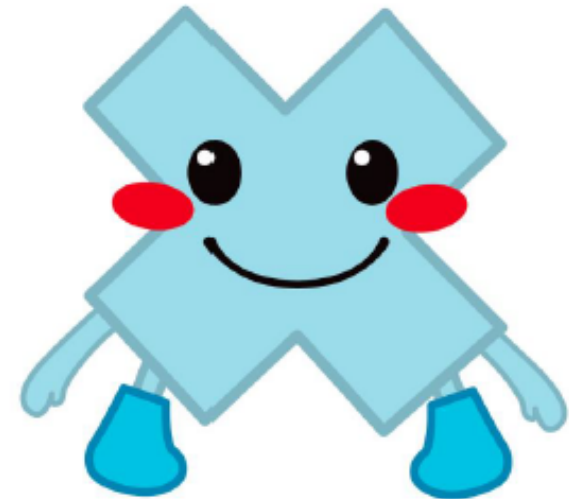
- count in steps of 2, 3, 5 and 10
- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables

Year 3:

- count from 0 in multiples of 4, 8, 50 and 100
- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Year 4:

- count in multiples of 6, 7, 9, 25 and 1000
- recall multiplication and division facts for multiplication tables up to 12×12



How are times tables taught?



What can you do at home?

Useful items to help your help your child with times tables at home include:

- A **stack of coins** – at least a dozen each of 1p, 5p and 10p, and preferably two dozen 2p, will let you make up a full set of tables to 12x12 for the occasions when your child might need to go back and check by counting. No cost, beyond the time it takes to collect up the change.
- A **pack of cards** – take out the aces and Kings, count Jack as 11 and Queen as 12, and you can practise the full range of tables by dealing your child two cards and asking them to multiply them.

What can you do at home?

- A **pack of blank cards** (make them out of cardboard or paper, or buy premade versions) These are infinitely versatile. You can write down whatever items your child has problems with and make **Pelmanism sets** with questions and answers. (Write the questions and answers on different cards. Shuffle and turn the cards face down. The child has to turn over a card, then turn over the matching card. You can start with a small number of sets and build up.) How many card questions can your child answer correctly against the clock? Boys very much enjoy this, but so do most girls.
- **The internet** – just type in online times tables games or worksheets and there are many sites to choose from

What can you do at home?

What websites and worksheets can't do is explain how tables operate, or feed back to a child why they've made a mistake, and how to avoid it next time. So, best to keep them for practice and speeding up after your child has learned a table.

Useful websites include:

- uk.mathletics.com
- www.ixl.com/math
- www.topmarks.co.uk/.../multiplication-and-division
- www.timestables.co.uk
- www.bbc.co.uk/skillswise/game/ma13tabl-game-tables-grid-find
- www.primaryhomeworkhelp.co.uk/.../timestable/interactive.htm