

<https://www.topmarks.co.uk/mathsgames/hit-the-button>



<https://www.topmarks.co.uk/Flash.aspx?f=dartboardcentretotal>



<https://www.youtube.com/watch?v=pkclJn5HrMl>



<https://www.youtube.com/watch?v=3kAWgxcQG8l>



<https://www.youtube.com/watch?v=lZ4oolN7Bmo>



<https://www.youtube.com/watch?v=kN3RG5ilKpo>



<https://www.timestables.co.uk/4-times-table.html>



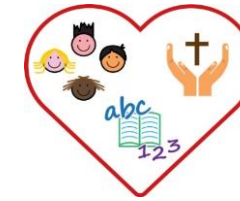
<https://www.timestables.co.uk/8-times-table.html>



<https://www.ictgames.com/mobilePage/duckShoot/index.html>

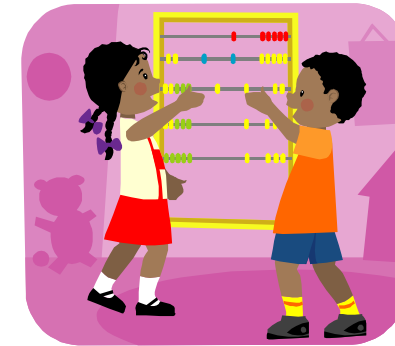


St Matthew's C.E. Primary Academy



Help your child to learn maths facts.

Year 3



Parent's and carer's guide to support
children with the 'Learning by Heart'
programme
Summer Term

'Learning by Heart'

Developing children's knowledge of mathematical facts so that they know them 'by heart' is a valuable tool to support calculation strategies, and also helps to build confidence. Regular practice is needed to secure knowledge and help children instantly recall facts.

We encourage children to think 'Can I do this in my head?' Having a range of number facts at their fingertips really empowers the children and enables them to approach tasks with confidence.

Young children need to work practically using apparatus like toys, small objects, coins, etc, this will help children to check their mental work with real materials.

Summer Term 1: Know all addition facts for:

Multiples of 100 to 1000 and Multiples of 5 with a total of 100

100 + 900 = 1000	200 + 800 = 1000	300 + 700 = 1000
400 + 600 = 1000	500 + 500 = 1000	600 + 400 = 1000
700 + 300 = 1000	800 + 200 = 1000	900 + 100 = 1000

5 + 95 = 100	10 + 90 = 100	15 + 85 = 100
20 + 80 = 100	25 + 75 = 100	30 + 70 = 100
35 + 65 = 100	40 + 60 = 100	45 + 55 = 100
50 + 50 = 100	55 + 45 = 100	60 + 40 = 100
65 + 35 = 100	70 + 30 = 100	75 + 25 = 100
80 + 20 = 100	85 + 15 = 100	90 + 10 = 100
95 + 5 = 100		

<https://www.topmarks.co.uk/Flash.aspx?f=dartboardcentretotal> – multiples of 100 to 1000 and multiples of 5 to 100

Play games where you choose a number and your child has to find the number that totals 100:

Practical ideas to help your child

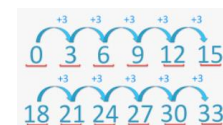
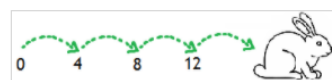
Encourage your child to be logical and work through the numbers in a sequence as this helps speed and accuracy. Once they are able to list the facts, then try quick recall of facts by giving them a number and they have to think of its partner.

You should be able to answer these questions in any order and phrased in any of the given ways.

- Facts for free: because you know that $0 + 100 = 100$, you also know that $100 + 0 = 100$
- Different representations: 0 and 100 is the same as $100 + 0$
- Related subtraction facts: because you know that $10 + 90 = 100$, you also know that $100 - 10 = 90$ and that $100 - 90 = 10$

Summer Term 2: Know multiplication and division facts for the 3x, 4x and 8x tables (Reinforce knowledge of x2, x10 and x5)

0 x 4 = 0	4 ÷ 4 = 1	0 x 8 = 0	8 ÷ 8 = 1
1 x 4 = 4	4 ÷ 4 = 1	1 x 8 = 8	8 ÷ 8 = 1
2 x 4 = 8	8 ÷ 4 = 2	2 x 8 = 16	16 ÷ 8 = 2
3 x 4 = 12	12 ÷ 4 = 3	3 x 8 = 24	24 ÷ 8 = 3
4 x 4 = 16	16 ÷ 4 = 4	4 x 8 = 32	32 ÷ 8 = 4
5 x 4 = 20	20 ÷ 4 = 5	5 x 8 = 40	40 ÷ 8 = 5
6 x 4 = 24	24 ÷ 4 = 6	6 x 8 = 48	48 ÷ 8 = 6
7 x 4 = 28	28 ÷ 4 = 7	7 x 8 = 56	56 ÷ 8 = 7
8 x 4 = 32	32 ÷ 4 = 8	8 x 8 = 64	64 ÷ 8 = 8
9 x 4 = 36	36 ÷ 4 = 9	9 x 8 = 72	72 ÷ 8 = 9
10 x 4 = 40	40 ÷ 4 = 10	10 x 8 = 80	80 ÷ 8 = 10
11 x 4 = 44	44 ÷ 4 = 11	11 x 8 = 88	88 ÷ 8 = 11
12 x 4 = 48	48 ÷ 4 = 12	12 x 8 = 96	96 ÷ 8 = 12



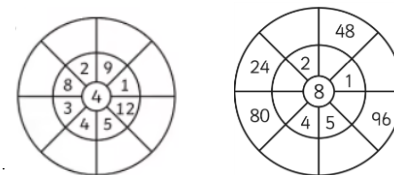
Practical ideas to help your child

Chanting is still an effective way to learn multiplication tables. Musical times tables CDs/videos are also quite useful – children often learn the 'rhythm and rhyme' of a song quite quickly and therefore learn to recite and recall the facts.

It is really important that children are as confident with division facts as they are with multiplication facts.

Practice the idea of 'Family of facts' e.g. if I know that $7 \times 4 = 28$

I also know $4 \times 7 = 28$, and that $28 \div 4 = 7$ so $28 \div 7 = 4$



Complete multiplication wheels:

Vocabulary

times	multiply	multiple of	shared
lots of	groups of	divided by	