

## Year 4 – Cakes and Calculations

### Number – multiplication and division

#### Statutory requirements

Pupils should be taught to:

- recall multiplication and division facts for multiplication tables up to  $12 \times 12$
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as  $n$  objects are connected to  $m$  objects.

#### Rapid Times Tables:

1. Roll two 6-sided dice.
2. Multiply them together in your head.
3. Who can say the correct answer first? You get a point!
4. Winner = the first person to get ten points!

*(Challenge yourself by using 9-sided dice)*

#### Times Tables Bingo:

1. Choose either 'Bingo grid A' or 'Bingo grid B'.
2. Roll two 9-sided dice and multiply them together.
3. If this number appears on your bingo grid, cross it off.
4. Winner = the first person to cross off all numbers from their grid!

Bingo grid A:

12	15	6	18
42	30	35	4

Bingo grid B:

8	9	14	20
24	25	36	48

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### Multiplying a 3-digit number by a 1-digit number:



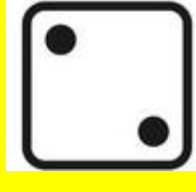
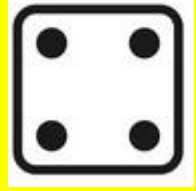
1. Roll four 6-sided dice and place one in each of the **yellow** cells.
2. Multiply them together step by step.
3. Add up the ones column, tens column, hundreds column and thousands column and place your answer in the **green** cells.

Example:

$$4 \times 2 = 8$$

$$4 \times 30 = 120$$

$$4 \times 600 = 2400$$

			
X			
			8
	1	2	0
2	4	0	0
<b>2</b>	<b>5</b>	<b>2</b>	<b>8</b>

Online Times Tables Games:

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

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