

## 2 Mystery Times Tables

### Your challenge:

- Can you help solve a times table mystery?
- On Challenge 2 Sheet there are two times tables that have been written in code. Each digit has been replaced by a letter and the times tables have all been jumbled up!

### What to do:

1. Can you work out which digit each letter stands for? Try to spot patterns in the digits so you can rule out certain numbers and rule in others.
2. Can you work out which times table is the 11 times table or the 1 times table? Does the number of single digit answers help you work out which times table it could be?
3. Solve the puzzle and record which digit each letter stands for on the challenge sheet.

Set 1 times table (A) is \_\_\_\_\_

Set 2 times table (L) is \_\_\_\_\_

### You will need:

- Challenge 2 Sheet

## 3 My Favourite Number

### Your challenge:

- How much do you know about your favourite number?

### What to do:

1. What's your favourite number? Write it down in the centre of a piece of plain paper (if you don't have a favourite number, pick a number at random).
2. Note down at least 20 facts about the number around your number, creating a poster. Examples you could choose include factors, multiples, even/odd, square number, sides on a shape etc.
3. For example, if your favourite number was 32, you could write down facts like:
  - It's a multiple of 1, 2, 4, 8 and 16
  - It's an even number
  - $32 \times 2 = 64$
  - $1 + 31 = 32$
4. Try to make sure you have a good range of different types of facts.
5. Be as creative as you can with how you present your work.

### You will need:

- A piece of plain paper
- Colouring pencils or crayons

## Challenge 2 Sheet Mystery Times Tables

These times tables are a mystery. Each digit has been replaced by a letter and the order of the times tables has been jumbled up!

Can you work out which digit each letter stands for? There are two sets of times tables for you to complete.

Try to spot patterns in the digits so you can rule out certain numbers and rule in others.

Can you work out which times table is the 11 times table or the 1 times table? Does the number of single digit answers help you work out which times table it could be?

Solve the puzzle and record which digit each letter stands for on the challenge sheet.

### Times Tables Set 1

$$A = \boxed{\phantom{00}} \quad B = \boxed{\phantom{00}} \quad C = \boxed{\phantom{00}} \quad D = \boxed{\phantom{00}} \quad E = \boxed{\phantom{00}}$$

$$F = \boxed{\phantom{00}} \quad G = \boxed{\phantom{00}} \quad H = \boxed{\phantom{00}} \quad J = \boxed{\phantom{00}} \quad K = \boxed{\phantom{00}}$$

$$D \times A = A$$

$$H \times A = EJ$$

$$C \times A = EC$$

$$E \times A = JE$$

$$DB \times A = AB$$

$$J \times A = DJ$$

$$K \times A = GB$$

$$DJ \times A = HJ$$

$$F \times A = KE$$

$$A \times A = GA$$

$$G \times A = DC$$

$$DD \times A = AA$$