

# x strategies

Mental strategies that work for all sized multiplications. Apply these to the other number.

## Doubling family

**2** Double the other number (d)

**4** Double double the other number (dd)

**8** Double double double the other number (ddd)

## Power of Ten family

**10** Place values increase by one place ( $\times 10$ )

**9**  $\times 10$  take away a group ( $\times 10 - g$ )

**5**  $\times 10$  halve it OR halve it  $\times 10$  ( $\times 10 \frac{1}{2}$ )

## Related to the Doubling and Tens/Fives families

**3** Double plus a group (d + g)

**6**  $\times 3$  double ( $\times 3d$ ) OR  $\times 5 +$  group ( $\times 5 + g$ )  
OR double + double + double (d + d + d)

**7** Use turnarounds so you only need to memorise  $7 \times 7 = 49$  OR  $\times 5 +$  double ( $\times 5 + d$ )