1. You need to know up to 12 x 12
Here are some of the trickier times tables we have been working on at school to practise at home.
- Use TT Rockstars.
- Use https://www.timestables.co.uk/ as a free online resource.

Place value grid:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
7,	0	4	8,	9	6	4 •	3	7	5

4. What is each digit worth?
e.g. the **9** is worth 900
The **3** is worth 3/10 or 0.3
Can you identify the value of digits in other numbers?

5. Can you write a set of numbers with decimals?
e.g. 36.5, 365, 36.55, 0.365, 3.655.
Order them smallest to largest.

6. Use the place value grid to multiply and divide numbers by 10, 100 and 1000.
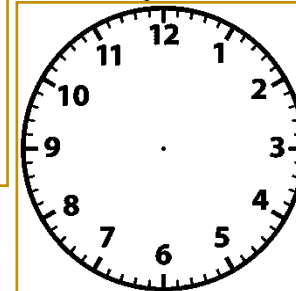e.g. 7,048,964.375 x 100 = 704,896,437.5
7,048,964.375 ÷ 1000 = 7048.964375

6 x 1 = 6	7 x 1 = 7
6 x 2 = 12	7 x 2 = 14
6 x 3 = 18	7 x 3 = 21
6 x 4 = 24	7 x 4 = 28
6 x 5 = 30	7 x 5 = 35
6 x 6 = 36	7 x 6 = 42
6 x 7 = 42	7 x 7 = 49
6 x 8 = 48	7 x 8 = 56
6 x 9 = 54	7 x 9 = 63
6 x 10 = 60	7 x 10 = 70
6 x 11 = 66	7 x 11 = 77
6 x 12 = 72	7 x 12 = 84

2. Multiplication
You will need to practise multiplying up to 4 digit by 2 digit numbers. Try these then make up your own. You could use a dice to generate calculations:
326 x 13 =
5190 x 27
9212 x 82

3. Division
You will need to practise dividing up to 4 digit by 2 digit numbers. Your remainders will have to be left as whole numbers, decimals or fractions. Try these then make up your own:
9216 ÷ 5 =
783 ÷ 12 =
186 ÷ 15 =

Multiplying

X 10	digits move LEFT **1** space
X 100	digits move LEFT **2** spaces
X 1000	digits move LEFT **3** spaces

Dividing

÷ 10	digits move RIGHT **1** space
÷ 100	digits move RIGHT **2** spaces
÷ 1000	digits move RIGHT **3** spaces

Multiplication worked example:
```
   18
X  13
------
   54      18 x 3 on the first row
  180      (8 x 3 = 24, regrouping the 2 for
  ---      twenty, then 10 x 3 = 30 + 20 = 50)
  234      18 x 10 on the second row.
           (8 x 10 = 80 and 10 x 10 =100)
```

Division worked example:
```
    0 8 1 2 . 1 2 5
  8 ) 6 4 9 7 . 0 0 0
      6   1   1   2   4
```

Quarter to	Twenty past
Half past	Ten to
Quarter past	Twenty-five to
AM	PM

7. Negative numbers
Use the number line below to practise counting forwards and backwards over 0.
Can you answer the following questions?
-10 + 12 =
-8 + 14 =
-1 + 8 =
-5 + 10 =
Set your own challenges.

8. Rounding numbers
Practise rounding numbers to the nearest 10, 100 or 1000.
e.g.
What is 356 to the nearest 10?
360
What is 189 to the nearest 100? **200.**
Look at the digit before the place value you are rounding to decide.

Rounding Numbers
5 or more, let it soar.
4 or less, let it rest.

9. Practise adding and subtracting numbers including missing numbers
Remember to line them up properly first using place value.
___ + 5 = 357

10. Practise writing the time and drawing time on the clock.
Can you tell the time with an adult?
Can you answer these questions about time?
How many seconds in a minute?
How many minutes in an hour?
How many hours in a day?

16:45 = 4:45pm

Can you do any more conversions of 24hr clock?

11. Squared and cubed numbers. Practise squaring and cubing numbers.
6^2 = 6 x 6 = 36 (Six squared – squaring a number means multiplying it by itself).
6^3 = 6 x 6 x 6 = 216 (Six cubed – cubing a number means multiplying it by itself, then by itself again).

8 x 1 = 8	9 x 1 = 9
8 x 2 = 16	9 x 2 = 18
8 x 3 = 24	9 x 3 = 27
8 x 4 = 32	9 x 4 = 36
8 x 5 = 40	9 x 5 = 45
8 x 6 = 48	9 x 6 = 54
8 x 7 = 56	9 x 7 = 63
8 x 8 = 64	9 x 8 = 72
8 x 9 = 72	9 x 9 = 81
8 x 10 = 80	9 x 10 = 90
8 x 11 = 88	9 x 11 = 99
8 x 12 = 96	9 x 12 = 108

Number line:
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12