

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.

- 6 x 1 = 6
- 6 x 2 = 12
- 6 x 3 = 18
- 6 x 4 = 24
- 6 x 5 = 30
- 6 x 6 = 36
- 6 x 7 = 42
- 6 x 8 = 48
- 6 x 9 = 54
- 6 x 10 = 60
- 6 x 11 = 66
- 6 x 12 = 72

- 7 x 1 = 7
- 7 x 2 = 14
- 7 x 3 = 21
- 7 x 4 = 28
- 7 x 5 = 35
- 7 x 6 = 42
- 7 x 7 = 49
- 7 x 8 = 56
- 7 x 9 = 63
- 7 x 10 = 70
- 7 x 11 = 77
- 7 x 12 = 84

- 8 x 1 = 8
- 8 x 2 = 16
- 8 x 3 = 24
- 8 x 4 = 32
- 8 x 5 = 40
- 8 x 6 = 48
- 8 x 7 = 56
- 8 x 8 = 64
- 8 x 9 = 72
- 8 x 10 = 80
- 8 x 11 = 88
- 8 x 12 = 96

- 9 x 1 = 9
- 9 x 2 = 18
- 9 x 3 = 27
- 9 x 4 = 36
- 9 x 5 = 45
- 9 x 6 = 54
- 9 x 7 = 63
- 9 x 8 = 72
- 9 x 9 = 81
- 9 x 10 = 90
- 9 x 11 = 99
- 9 x 12 = 108

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

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:
 $326 \times 13 =$
 5190×27
 9212×82

18	18×3 on the first row
$\times 13$	$(8 \times 3 = 24, \text{ regrouping the } 2 \text{ for twenty, then } 10 \times 3 = 30 + 20 = 50)$
$\underline{54}$	
180	18×10 on the second row.
$\underline{234}$	$(8 \times 10 = 80 \text{ and } 10 \times 10 = 100)$

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:
 $9216 \div 5 =$
 $783 \div 12 =$
 $186 \div 15 =$

0812.125	
$\overline{) 86497.000}$	
61124	

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.
 $__ + 5 = 357$

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. $7,048,964.375 \times 100 = 704,896,437.5$
 $7,048,964.375 \div 1000 = 7048.964375$

Multiplying		Dividing	
X 10	digits move LEFT 1 space	$\div 10$	digits move RIGHT 1 space
X 100	digits move LEFT 2 spaces	$\div 100$	digits move RIGHT 2 spaces
X 1000	digits move LEFT 3 spaces	$\div 1000$	digits move RIGHT 3 spaces

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

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?
Can you do any more conversions of 24hr clock?

16:45 = 4:45pm

11. Squared and cubed numbers. Practise squaring and cubing numbers.

$6^2 = 6 \times 6 = 36$ (Six squared – squaring a number means multiplying it by itself).
 $6^3 = 6 \times 6 \times 6 = 216$ (Six cubed – cubing a number means multiplying it by itself, then by itself again).

