

Teaching PACKS

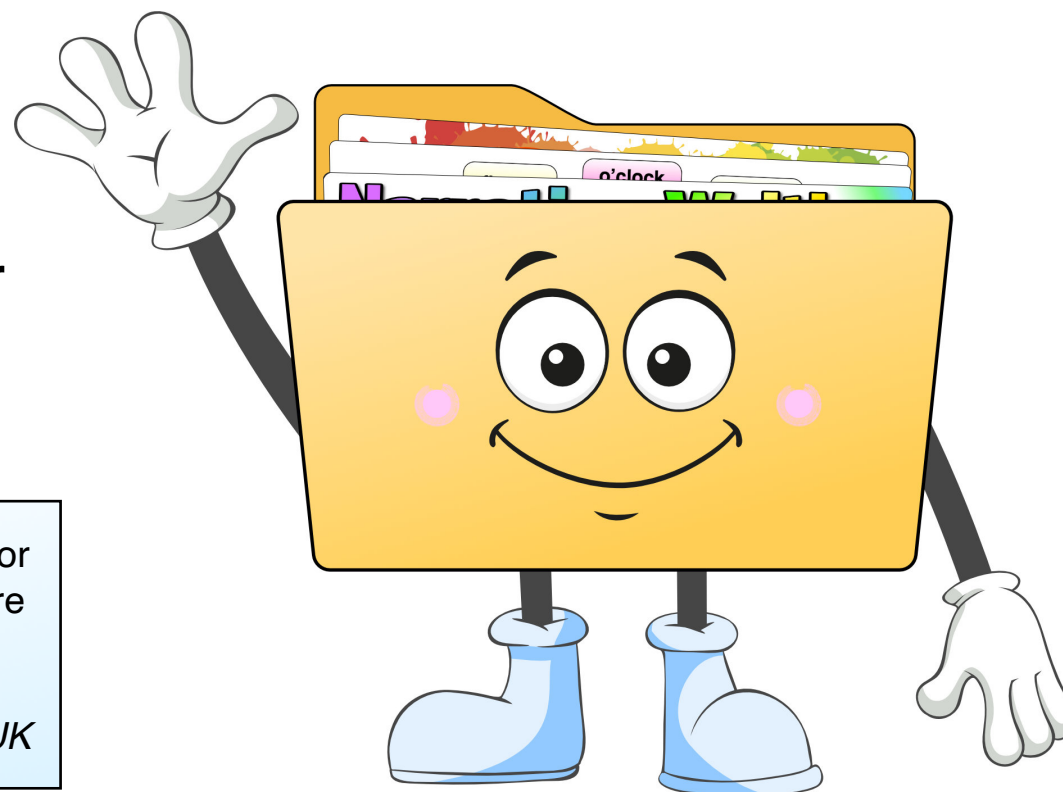
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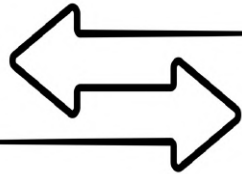
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Dawn, Primary Teacher, UK



**Remember that addition
calculations can be
completed in any order.**

$$12 + 8 = 20$$



$$8 + 12 = 20$$

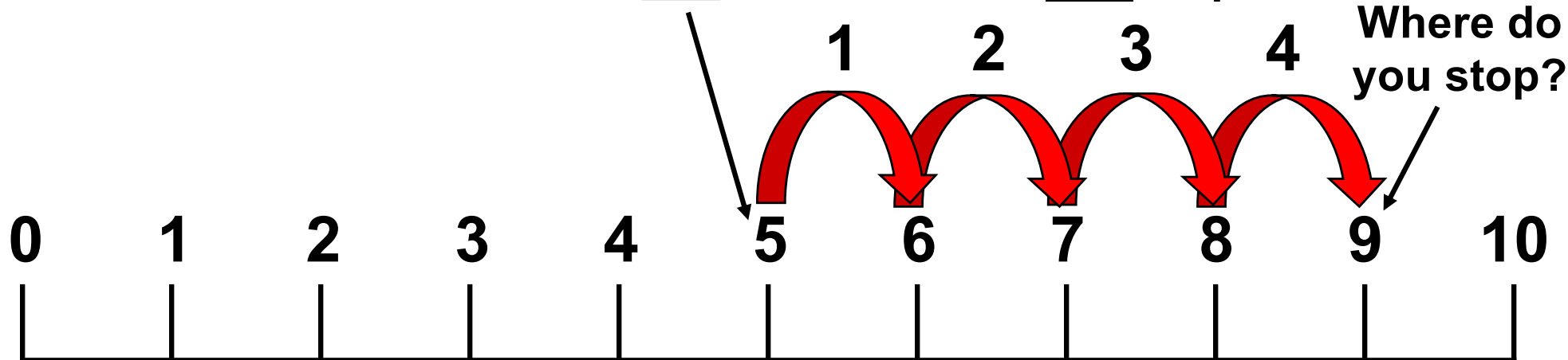
Use a number line to help you with addition calculations.

$$\underline{5 + 4}$$

Start at five.

Count on four steps.

Where do you stop?



So, five add four equals nine.

$$5 + 4 = 9$$

Use column addition to add larger numbers.

Top Tips

- 1) Remember to line up the place value columns carefully.
- 2) Don't forget to add the numbers that you have carried!

Write the numbers one above the other.

	H	T	O
	3	6	1
+	2	7	4
	6	3	5
	1		

First, add the **ones**

$$1 + 4 = 5$$

Then, add the **tens**

$$6 + 7 = 13$$

Write 3 here and carry the 1 hundred to the bottom of the hundreds column.

Finally, add the **hundreds**

$$3 + 2 + 1 = 6$$

Use number bonds (or addition pairs) to help with subtraction.

Number Bonds to 10

$$1 + 9 = 10$$

$$2 + 8 = 10$$

$$3 + 7 = 10$$

$$4 + 6 = 10$$

$$5 + 5 = 10$$

So...

$$10 - 9 = 1$$

$$10 - 8 = 2$$

$$10 - 7 = 3$$

$$10 - 6 = 4$$

$$10 - 5 = 5$$

Use a number square to help you with subtraction calculations.

$$\underline{79 - 35}$$

Start at 79

35 = 3 tens and 5 ones

Move 3 tens down and 5 squares to the left.

The final answer is 44

$$79 - 35 = 44$$

91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

To subtract 99 from a number,
subtract 100 and then **add 1**.

$$\underline{495 - 99}$$

$$495 - 100 = 395$$

$$395 + 1 = 396$$

Grid multiplication can be used to multiply larger numbers.

24×17

1. First partition the numbers.

$$24 = \underline{20} + \underline{4} \text{ and } 17 = \underline{10} + \underline{7}$$

2. Next, write those partitioned numbers in the first row and first column of the grid. →

x	20	4
10		
7		

3. Now multiply the numbers in the first row by the numbers in the first column. You will need to work out 20×10 , 20×7 , 4×10 and 4×7 .

x	20	4
10	200	40
7	140	28

4. Now add up all of the answers: $200 + 140 + 40 + 28 = 408$

$$24 \times 17 = 408$$

To multiply a number by 11,
multiply it by 10 and
then add the number.

$$\underline{14 \times 11}$$

$$14 \times 10 = 140$$

$$140 + 14 = 154$$

To multiply a number by 10, move the digits one space to the left.

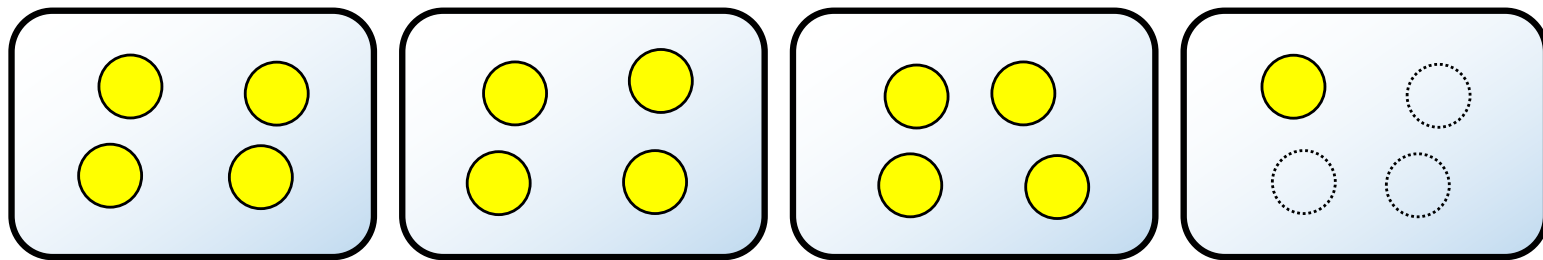
$$\underline{27 \times 10}$$

Th	H	T	O
		2	7
	2	7	0

$$27 \times 10 = 270$$

Sorting objects into groups can help us when dividing.

$$\underline{13 \div 4}$$



$$13 \div 4 = 3 \text{ remainder } 1$$

There are three whole groups and one left over.

The remainder is one out of a possible group of four.

So we can write the answer as...

$$3 \frac{1}{4} \text{ or } 3.25$$

$\frac{1}{4}$ is the same as 0.25

**To divide a number by 5,
double it and divide by 10.**

$$\underline{70 \div 5}$$

$$70 \times 2 = 140$$

$$140 \div 10 = 14$$

$$\text{So, } 70 \div 5 = 14$$

Division is closely linked to fractions.

$\frac{3}{4}$ means 3 divided by 4.

$$\frac{1}{2}$$

To work out half of a number, divide it by two.

$$\div 2$$

$$\frac{1}{3}$$

To work out one third of a number, divide it by three.

$$\div 3$$

$$\frac{1}{4}$$

To work out one quarter of a number, divide it by four.

$$\div 4$$