

Maths - Year 5

Calculating 13: Written methods for dividing

Key Vocabulary

Factor	A number that divides into another number exactly.
Remainder	Something that is left over when other parts have been used
Dividend	The number to be divided.
Divisor	The number you are dividing by.
Quotient	The result of dividing one number by another.
Exchanging	Transferring digits from one place value column to another to support calculating.

Mathematical Skills

- Record dividing calculations using the $\overline{)$ and \div symbols.
- Review numbers in a dividing calculation to decide whether to use a written or mental method.
- Use the short written method for dividing whole numbers and decimals.
- Divide, when necessary, to solve measures and money problems.
- Use inverse multiplying calculations to check dividing calculations.

Mathematical Methods

- Revisiting the sharing and grouping structures for dividing e.g. 100 stickers shared between 4 children.

$$100 \div 4 = 25$$



- Developing fluency with the short written method of dividing (THHTO \div O) e.g. $1701 \div 7$.

\rightarrow
 $\div 7$
301 left to share

\rightarrow
21 left to share
 \rightarrow

		2	4	3	
7)	1	7	³ 0	² 1

- Dividing with decimals in a measures context e.g. $1.44 \div 5$.

	0	.	2	8	
5)	1	.	4	4

 \rightarrow

	0	.	2	8		
5)	1	.	4	4	0

 \rightarrow

	0	.	2	8	8	
5)	1	.	4	4	0

- Dividing in a money context e.g. $\pounds 358.27 \div 8$ people = $\pounds 44.78$ with 3p left over.

		4	4	.	7	8	r	3
8)	3	⁵ 5	³ 8	.	⁶ 2	⁶ 7	

- Developing fluency and accuracy with the short method of dividing decimals e.g. $1.785 \text{ kg} \div 4$.



1.785 kg

	0	.	4	4	6	2	5	
4)	1	.	7	8	⁵ 5	⁰ 2	⁰ 5

Can you..?

- Draw base ten apparatus to model calculating $1278 \div 6$.
- Calculate 3.2×6 .
- Can you spot and explain the error?

		2	7	r5	
8)	2	1	6	5

- Calculate £19.53 shared between 3 people.