

Take One Calculation... (Lower KS2)

Phase B

2.53 + 6.6 =

Spot the mistake

Show me

Ask pupils to explain the error which has been made.
 $2.53 + 6.6 = 8.113$
 $2.53 + 6.6 = 8.59$
 $2.53 + 6.6 = 3.19$

Layout error

$$\begin{array}{r} 2.53 \\ + 6.6 \\ \hline \end{array}$$

What is the same and what is different?

Show me

$2.53\text{km} + 6.6\text{km}$
 $\text{£}2.53 - \text{£}6.60$
 $2.53\text{l} + 6.6\text{l}$
 Explore the value of each digit in each number sentence. With the money questions, discuss how the decimal has changed and the role of the zero holding a place. Pupils might need to spend time discussing the inaccurate use of the unit of measure when talking about money (6 pounds and 60 pence) before justifying the relationship between the number of digits post decimal point and the unit of measure. For example, convince me that $6.6 = \text{£}6.60$ and $6\text{m } 60\text{cm}$ and $6\text{kg } 600\text{g}$

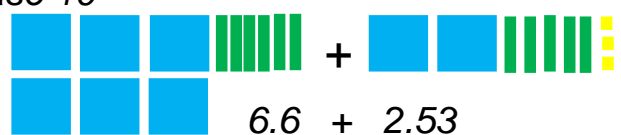
Explore different manipulatives and then explain the process to a partner

Show me

Money



Base 10



the blue hundred square = 1
 the green ten rod = 0.1
 the yellow one cube = 0.01

Bar model the solution

Show me



Give me a silly answer

Show me

"5 is silly because the answer is smaller than one of the numbers being added. We know, when adding, the total gets bigger."

3 different strategies to solve

Show me

Pupils may use a blank number line or partitioning as possible strategies. Encourage them to find a range of strategies and explore which is most efficient.

Use rounding to estimate

Show me

True or False?
 The answer is between 9 and 10.
 Prove it!

What number story could match this calculation?

Show me

Bob had 2.53l of orange squash. Tim had 6.6l . If they needed 10l to ensure everyone in the class had a drink, would they have enough altogether?

What else do I know?

Show me

How many different number sentences can you make from this one fact?
 Look for understanding of inverse.
 What other facts do you know?
 Can pupils relate to multiples of the numbers? For example:
 $25.3 + 66 =$
 $? - 2.53 = 6.6$

Make it tilt or balance

Show me

$2.53 + 6.6 = 1.53 + 7.6$
 How do you know it will tilt or balance without working it out?