

## Year 3 Addition Challenges

Look at the calculations below and fill in the missing digits.

$$\begin{array}{r} 1. \quad 4 \quad 2 \quad 5 \\ + \quad \square \quad 3 \quad \square \\ \hline 5 \quad \square \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7 \quad \square \quad 2 \\ + \quad 2 \quad 4 \quad \square \\ \hline \square \quad 8 \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \square \quad 2 \quad 6 \\ + \quad 3 \quad \square \quad 8 \\ \hline 7 \quad 9 \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \square \quad 4 \quad 6 \\ + \quad 1 \quad \square \quad 3 \\ \hline 6 \quad 6 \quad \square \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 2 \quad \square \quad 3 \\ + \quad 5 \quad 2 \quad 7 \\ \hline \square \quad 9 \quad \square \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 6 \quad \square \quad 6 \\ + \quad 3 \quad 8 \quad \square \\ \hline \square \quad 9 \quad 9 \\ \hline \end{array}$$

## Reasoning and problem solving

Explain the mistake Jack has made.

$$\begin{array}{r} \text{H T O} \\ 231 \\ + 63 \\ \hline \\ \hline \end{array}$$



Eva

$$265 + 27 = 282$$

Here is her working out:

	2	6	5
+		2	7
	2	8	2

Is she correct? Explain why.

## Answers

1.  $425 + 132 = 557$
2.  $546 + 123 = 669$
3.  $742 + 247 = 989$
4.  $263 + 527 = 790$
5.  $426 + 368 = 794$
6.  $616 + 383 = 999$

Jack has put 63  
in the wrong  
place value  
columns.

Or Jack hasn't lined the digits up correctly in the place value columns.

Eva is incorrect  
because she has  
not exchanged ten  
ones for one ten or  
shown this in the  
column method.

She should have  
added an extra ten  
to the tens  
column. The  
correct answer is  
292