

Estimating and checking column addition



- Add 3-digit numbers using the formal written method of column addition
- Estimate and check the answer to a calculation

Challenge 1

Write an estimate for each calculation and then work out the answer.

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|----------------------|----------------------|----------------------|----------------------|
| a $163 + 234$ | b $207 + 182$ | c $364 + 125$ | d $271 + 218$ |
| e $355 + 142$ | f $257 + 236$ | g $139 + 246$ | h $257 + 215$ |

Challenge 2

1 Look at the estimates the children have made for the calculations below.

$$352 + 241 \rightarrow \text{Estimate is } 600$$

$$235 + 202 \rightarrow \text{Estimate is } 300$$

$$281 + 395 \rightarrow \text{Estimate is } 500$$

$$427 + 241 \rightarrow \text{Estimate is } 650$$

- Choose one you think is a good estimate and explain why.
 - Choose one you think is not a good estimate and explain why.
- 2 Write an estimate for each of these calculations. Choose two and explain how you made your estimate. Then work out each of the calculations.

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|----------------------|----------------------|----------------------|----------------------|
| a $362 + 219$ | b $583 + 145$ | c $457 + 235$ | d $469 + 228$ |
| e $377 + 371$ | f $408 + 365$ | g $261 + 573$ | h $358 + 529$ |

Challenge 3

- Do you agree or disagree with Joe? Explain why.
- Write an estimate for each calculation and then work out the answer.

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|----------------------|----------------------|----------------------|
| a $374 + 552$ | b $461 + 456$ | c $547 + 417$ |
| d $604 + 379$ | e $763 + 184$ | f $568 + 218$ |

- Choose three of your calculations and check them using the inverse operation.

Estimating does not help me with my maths.

