

Estimating and checking column subtraction



- Subtract 3-digit numbers using the formal written method of column subtraction
- 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 274 – 132 | b 285 – 153 | c 369 – 127 | d 356 – 233 |
| e 397 – 242 | f 373 – 156 | g 364 – 128 | h 381 – 215 |

Challenge 2

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

- Choose one you think is a good estimate and explain why.
- Choose one you think is not a good estimate and explain why.

$$391 - 115 \rightarrow \text{Estimate is } 300$$

$$432 - 196 \rightarrow \text{Estimate is } 200$$

$$285 - 181 \rightarrow \text{Estimate is } 100$$

$$466 - 289 \rightarrow \text{Estimate is } 300$$

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 374 – 138 | b 387 – 169 | c 436 – 282 | d 453 – 227 |
| e 516 – 362 | f 584 – 347 | g 539 – 372 | h 578 – 269 |

Challenge 3

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

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|--------------------|--------------------|--------------------|
| a 672 – 317 | b 648 – 281 | c 755 – 362 |
| d 784 – 459 | e 728 – 266 | f 844 – 137 |

Checking my answers is a waste of time.



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