

## Written addition (4)

- Add numbers with up to 4 digits using the formal written method of columnar addition
- Estimate and use inverse operations to check answers to a calculation



Challenge 1

1 Estimate the answers to these calculations, then work them out.

a  $562 + 243$     b  $627 + 281$     c  $593 + 342$     d  $426 + 447$

2 These calculations add up to more than 1000.

a  $649 + 624$     b  $753 + 552$     c  $617 + 748$     d  $863 + 692$

Challenge 2

1 Estimate the answers to these calculations, then work them out.

a  $2641 + 2419$     b  $3627 + 1782$     c  $2836 + 2085$     d  $3525 + 2647$   
 e  $2371 + 3159$     f  $3628 + 2753$     g  $4183 + 2907$     h  $5351 + 3829$

2 Now estimate the answers to these calculations, then work them out.

a  $4763 + 2578$     b  $3384 + 4839$     c  $3962 + 2159$     d  $4295 + 3827$

Challenge 3

1 Estimate the answers to these calculations, then work them out.

a  $6276 + 2845$     b  $5395 + 3716$     c  $4876 + 2978$     d  $5075 + 3935$

2 Check your calculations using the inverse operation.

3 Can you think of a more efficient way than the written method for working out the answer to this calculation:  $2999 + 2999$ ?



## Written subtraction (3)

- Subtract numbers with up to 4 digits using the formal written method of columnar subtraction
- Estimate and use inverse operations to check answers to a calculation



Challenge 1

a  $628 - 354$     b  $781 - 426$     c  $677 - 283$     d  $706 - 324$   
 e  $643 - 281$     f  $866 - 292$     g  $870 - 354$     h  $892 - 565$   
 i  $967 - 683$     j  $992 - 755$     k  $849 - 372$     l  $851 - 537$

Challenge 2

1 Write an estimate for these calculations before you work them out.

a  $3673 - 1835$     b  $3827 - 2448$     c  $4346 - 1571$     d  $4386 - 2197$   
 e  $5184 - 2358$     f  $6396 - 4759$     g  $7826 - 4188$     h  $7069 - 2371$   
 i  $7176 - 5338$     j  $7275 - 4444$     k  $8627 - 4708$     l  $8642 - 3266$

2 Choose four of your calculations and check your answers using the inverse operation.

Challenge 3

1 Write an estimate for these calculations before you work them out.

a  $7738 - 3819$     b  $7628 - 5189$     c  $7364 - 6715$     d  $8672 - 3781$   
 e  $8267 - 4598$     f  $8461 - 2783$     g  $9363 - 2495$     h  $9532 - 4955$

2 Choose four of your calculations and check your answers using the inverse operation.

3 Can you think of a more efficient way than the written method for working out the answer to this calculation:  $3999 - 1001$ ?

