Written subtraction (3)

- Subtract whole numbers with 5 and 6 digits using the formal written method
- Use rounding to check answers to calculations

Work out these calculations then use rounding to check your answers.

a   46 272 – 28 145   b   48 326 – 15 718

c   53 618 – 29 433   d   57 286 – 31 527

e   62 308 – 44 142   f   67 297 – 41 629

g   75 247 – 39 018   h   78 472 – 50 643

i   84 135 – 45 621   j   94 362 – 67 536

Example

$$
\begin{array}{r}
{}^{5}\;{}^{13}\;{}^{3}\;{}^{16}\;{}^{13} \\
\cancel{6}\;\cancel{3}\;\cancel{4}\;\cancel{7}\;\cancel{3} \\
-\ 2\ 7\ 1\ 8\ 5 \\
\hline
3\ 6\ 2\ 8\ 8
\end{array}
$$

$$
\begin{array}{r}
{}^{5}\;{}^{13} \\
\cancel{6}\;\cancel{3}\;5\ 0\ 0 \\
-\ 2\ 7\ 2\ 0\ 0 \\
\hline
3\ 6\ 3\ 0\ 0
\end{array}
$$

1 Work out these calculations then use rounding to check your answers.

a   483 387 – 235 709   b   466 292 – 175 705

c   528 165 – 269 048   d   581 633 – 325 266

e   682 263 – 294 081   f   725 292 – 40 635

g   728 428 – 59 169   h   806 331 – 51 642

i   853 566 – 7589   j   972 005 – 8352

k   45 876 – 29 359   l   96 531 – 8372

m   585 736 – 92 549   n   833 622 – 7449

Example

$$
\begin{array}{r}
{}^{6}\;{}^{17}\;{}^{12} \\
5\ \cancel{7}\ \cancel{8}\ \cancel{2}\ 4\ 5 \\
-\quad 4\ 8\ 7\ 2\ 1 \\
\hline
5\ 2\ 9\ 5\ 2\ 4
\end{array}
$$

$$
\begin{array}{r}
{}^{6}\;{}^{17}\;{}^{12} \\
5\ \cancel{7}\ \cancel{8}\ \cancel{2}\ 0\ 0 \\
-\quad 4\ 8\ 7\ 0\ 0 \\
\hline
5\ 2\ 9\ 5\ 0\ 0
\end{array}
$$

2 Challenge your partner.

- Write a subtraction calculation. The two numbers must have a different number of digits.
- Give it to your partner to work out.
- Check their answer.

Challenge 3

1 Work out the missing numbers in the calculations.

a   537 652 – 🍁 = 276 298   b   487 208 – 🍃 = 145 622

c   529 900 – 🍁 = 267 651   d   582 309 – 🍂 = 318 901

e   638 672 – 🍃 = 222 678   f   783 426 – 🍁 = 582 288

g   729 427 – 🍂 = 488 762   h   835 611 – 🍁 = 727 285

i   892 362 – 🍁 = 639 227   j   927 242 – 🍃 = 739 242

2 A total of 653 297 tickets were sold for a series of four concerts.

- For the first concert, 187 471 fans turned up.
- For the second concert, 307 275 fans were there.
- There were two other concerts. More came to the fourth than the third.
- An odd number of fans came to the third concert and and even number of fans came to the fourth. There were no 0s in either number.

How many fans could have been at the third and fourth concerts?

3 Write a problem similar to Question 2 for a partner to work out.