Add and subtract integers

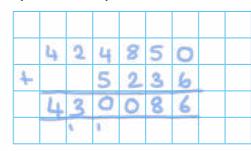**1** Complete the calculations.
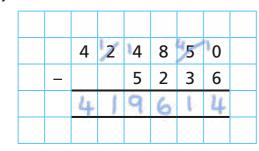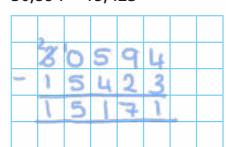
a)

	3	0	5	9	4
+	1	5	4	2	3
	4	6	0	1	7

c) 5,236 + 424,850

	4	2	4	8	5	0
+			5	2	3	6
	4	3	0	0	8	6

b)

	4	2	4	8	5	0
−			5	2	3	6
	4	1	9	6	1	4

d) 30,594 − 15,423

	3	0	5	9	4
−	1	5	4	2	3
	1	5	1	7	1
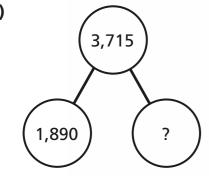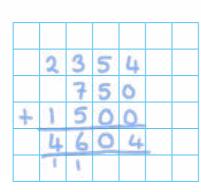
2 Calculate the missing numbers. Show your method.

a)

3,715 → 1,890 and ?

	3	7	1	5
−	1	8	9	0
	1	8	2	5

b)

?
2,354	750	1,500

	2	3	5	4
		7	5	0
+	1	5	0	0
	4	6	0	4

c) 23,500 + ☐ + 120,578 = 1,201,079

	1	2	0	5	7	8
+		2	3	5	0	0
	1	4	4	0	7	8

	1	2	0	1	0	7	9
−		1	4	4	0	7	8
	1	0	5	7	0	0	1

1,057,001

d) ☐ − 233,233 = 322,322

	3	2	2	3	2	2
+	2	3	3	2	3	3
	5	5	5	5	5	5

555,555
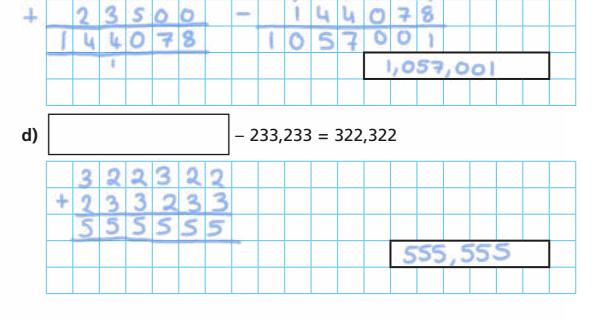
3 Match the calculations to the best estimates.
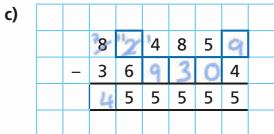
8,000,500 − 6,100,000		200,000
1,250,000 + 900,000		one million
double 600,000		$2\frac{1}{4}$ million
123,999 + 84,178		2 million

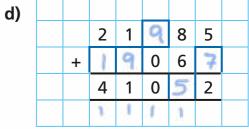Talk about your answers with a partner.

4 Complete the calculations.

a)

	8	1	4	8	5
+	1	8	0	6	3
	9	9	5	4	8

c)

	8	2	4	8	5	9
−	3	6	9	3	0	4
	4	5	5	5	5	5

b)

	2	9	0	5	5
−	2	0	0	5	0
	0	9	0	0	5

d)

	2	1	9	8	5
+	1	9	0	6	7
	4	1	0	5	2
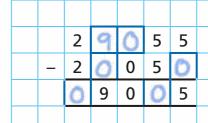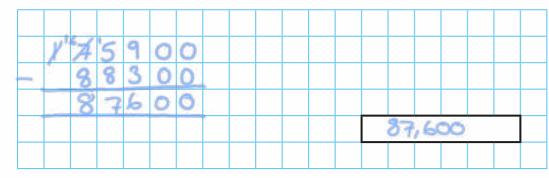
5 Four players have scored points in a video game.
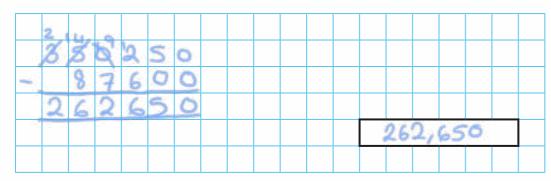
Player	Score
Annie	350,250
Jack	175,900
Mo	99,750
Dora	?

Dora's score is 88,300 less than Jack's.

a) What is Dora's score?

$$
\begin{array}{r}
1\,{}^{16}7\,5\,9\,0\,0 \\
-\ \ 8\,8\,3\,0\,0 \\
\hline
8\,7\,6\,0\,0
\end{array}
$$

87,600
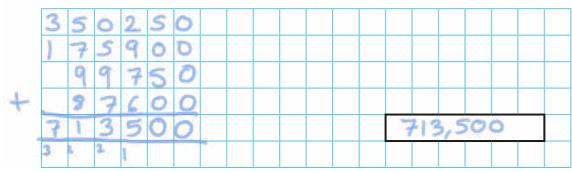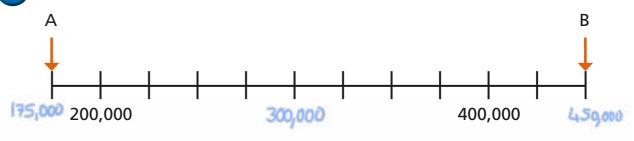
b) What is the difference between the highest score and the lowest score?

$$
\begin{array}{r}
{}^{2}3\,{}^{4}5\,{}^{9}0\,2\,5\,0 \\
-\ \ \ 8\,7\,6\,0\,0 \\
\hline
2\,6\,2\,6\,5\,0
\end{array}
$$

262,650

c) What is the total of all the players' scores?

$$
\begin{array}{r}
3\,5\,0\,2\,5\,0 \\
1\,7\,5\,9\,0\,0 \\
9\,9\,7\,5\,0 \\
+\ \ 8\,7\,6\,0\,0 \\
\hline
7\,1\,3\,5\,0\,0 \\
{}_{3}\ {}_{1}\ {}_{2}\ {}_{1}
\end{array}
$$

713,500

6 What is the difference between A and B?

A   B

175,000 200,000   300,000   400,000 450,000

The difference between A and B is 275,000

7

1	3	5	7	9	0
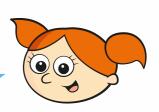
Use each digit card once to complete the calculation.

9 7 5 − 3 1 0 = 665 (various answers)
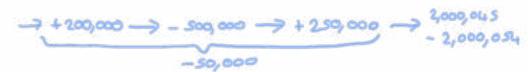
Try different combinations of digits to get an answer that is as close to 500 as possible.

8

> I am thinking of a number. I add 200,000, then subtract half a million, then add a quarter of a million. Then I round to the nearest 10, which is two million and fifty.

What number could Alex have been thinking of to start with?

→ +200,000 → − 500,000 → + 250,000 → 2,000,045 − 2,000,054

−50,000

Alex could have been thinking of 2,050,045 − 2,050,054