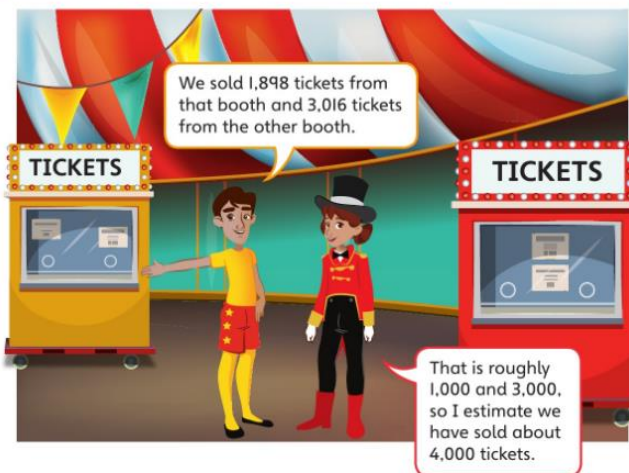


Estimating answers to additions and subtractions



Discover



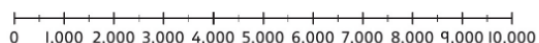
- 1 a) Is this an **accurate** estimate?
- b) Check if the estimate is close to the **exact** calculation.

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Think together

- 1 There were 6,149 people in the audience, but 912 of them left during the interval.

Round to the nearest thousand to estimate how many people stayed.



6,149 rounds to ,000. 912 rounds to ,000.

,000 ,000 =

Roughly ,000 people stayed.

- 2 Make an estimate for each calculation.
Choose whether to round to the nearest 100 or 1,000 for each.

$2,794 + 3,911$

$9,811 - 2,788$

2,794 rounds to

rounds to

3,911 rounds to

rounds to

+ =

= -

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Share



1,898 is closer to 2,000 than 1,000.

A better estimate would be $2,000 + 3,000 = 5,000$.

They have sold roughly 5,000 tickets.

I will try rounding 1,898 and 3,016 to the nearest 1,000.



b)

Th	H	T	O
3	0	1	6
+	1	8	9
4	9	1	4

I wonder what estimate I would make if I rounded to the nearest 100.

The exact answer is 4,914 tickets.

4,914 rounds to 5,000.

5,000 is a good estimate.

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- 3 Max used a column subtraction to solve

$5,602 - 2,975 = \square$

Th	H	T	O
4	8	1	2
-	2	9	7
2	6	2	7



Isla and Aki used estimates to check Max's working.

I rounded 2,975 to 3,000, then worked out $5,602 - 3,000 = 2,602$. I think Max's answer is right.

I rounded both numbers and then worked it out. $6,000 - 3,000 = 3,000$. I think Max's answer is wrong.



Isla



Aki

- a) Explain the differences between Isla's way of estimating and the method that Aki used.
- b) Which estimate works better?
- c) How would an estimate have helped Max?

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