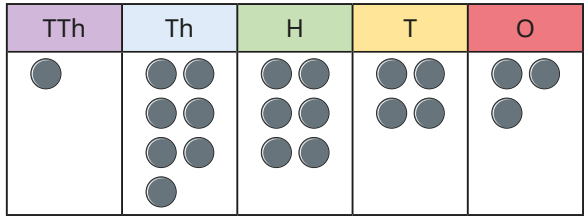
Find missing numbers

1 Use the place value chart to help you work out the missing numbers.



a) 17,643 + ☐ = 17,843

b) 17,643 – ☐ = 17,613

c) ☐ + 100 = 17,643

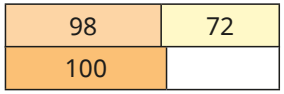
d) ☐ – 100 = 17,643

e) 1,000 + ☐ = 17,643

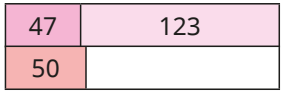
f) ☐ – 2,000 = 17,643

2 Use the bar models to help you complete the calculations.

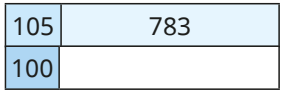
a) 98 + 72 = 100 + ☐



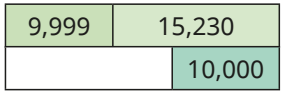
b) 47 + 123 = 50 + ☐



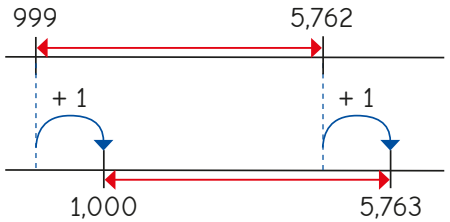
c) 105 + 783 = 100 + ☐

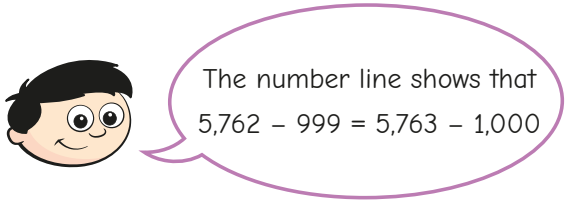


d) 9,999 + 15,230 = ☐ + 10,000



3 Dexter has represented two calculations on a number line.



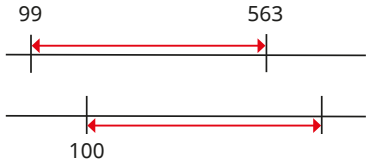


Do you agree with Dexter?

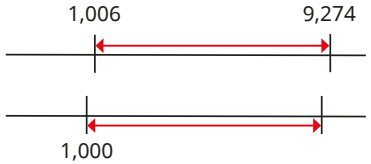
Explain your answer.

4 Use the number lines to help you complete the calculations.

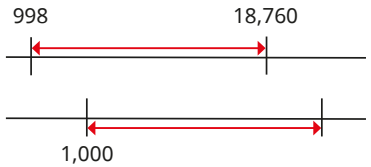
a) 563 – 99 = ☐ – 100



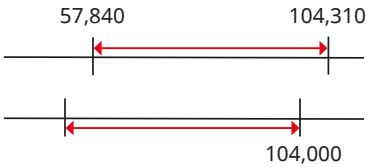
c) ☐ – 1,000 = 9,274 – 1,006



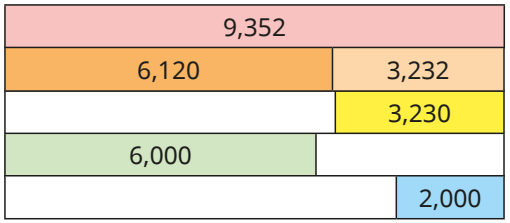
b) 18,760 – 998 = ☐ – 1,000



d) 104,310 – 57,840 = 104,000 – ☐



5 Complete the bar model.



Write three pairs of equivalent calculations that can be seen from the bar model.

Compare answers with a partner.

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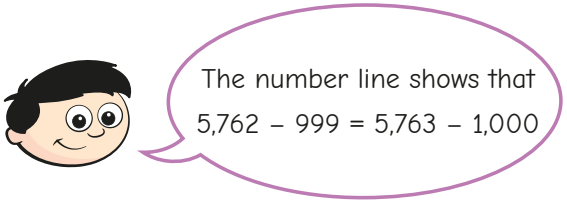
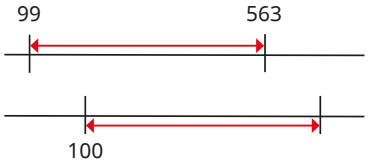


Do you agree with Dexter?

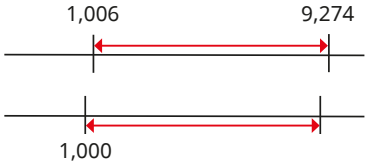
Explain your answer.

4 Use the number lines to help you complete the calculations.

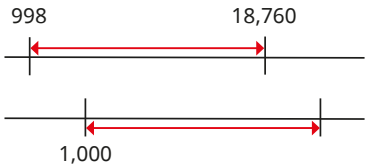
a) 563 – 99 = ☐ – 100



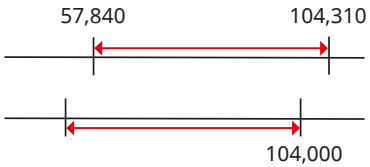
c) ☐ – 1,000 = 9,274 – 1,006



b) 18,760 – 998 = ☐ – 1,000



d) 104,310 – 57,840 = 104,000 – ☐



5 Complete the bar model.

9,352	
6,120	3,232
	3,230
6,000	
	2,000

Write three pairs of equivalent calculations that can be seen from the bar model.

Compare answers with a partner.

6 Work out the missing numbers.

a) 12,790 + 5,056 = 12,800 + ☐

b) 18,263 – 990 = ☐ – 1,000

c) 563 + ☐ = 570 + 1,000

d) ☐ – 10,000 = 27,316 – 10,006

e) 499,800 + ☐ = 12,250 + 500,000

f) 9,996 – 5,016 = 10,000 – ☐

7 **a)** Write three additions that are equivalent to 197 + 550

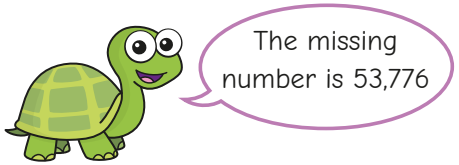
b) Write three subtractions that are equivalent to 8,793 – 2,016

Compare answers with a partner.

Which of your calculations are easiest to work out mentally?

8 104,700 – 53,476 < 105,000 – ☐

a)



Explain the mistake that Tiny has made.

b) Give an example of what the missing number **could** be.

c) Give an example of what the missing number **could not** be.

d) What must be true about the missing number?

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