

- 1) Complete the table by identifying what is missing from each representation of the following three numbers. You could use the resources shown to make each number to help you.



6050	7500	3025




- 2) Complete the table.

	+ 100	-10	+ 1000	- 100
3036				
6905				
			7812	
				8650

What happens to the original number as you add or subtract each multiple of 10?

- 1) a) Use the clues to match each number card to the correct child.



 Juan "My number is four thousand less than Fabian's number."	 Josie "The digit sum of my number is 15."	 Rachael "I have the greatest number."
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19 305

9035

19 350

5145

15 305

 Fabian "My number is four thousand more than Juan's number."	 Betsy "My number is divisible by 5."
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- b) Whose clue do you think is the least helpful? Why?

- 2) Ahmed says:



$$13\,906 + 100 \approx 14\,106$$

Do you agree with him? Explain your answer.

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- 1) Jerry is counting up in steps of 100 from a given number. He has reached 15 703.



- a) Give any three positive numbers less than 13 000 that he would have said.
- b) Give any three numbers greater than 18 000 that he will say if he continues counting up in hundreds.
- c) If Jerry had started counting from a negative number, what number could this have been? Explain your answer.

- 2) Pablo started with the number 12 705 and, after following four instructions from the cards below, he now has the number 12 795.



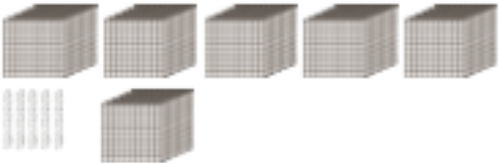
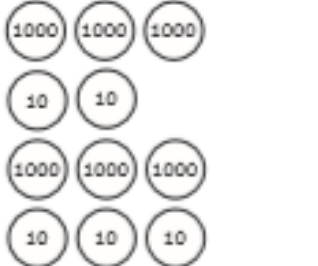
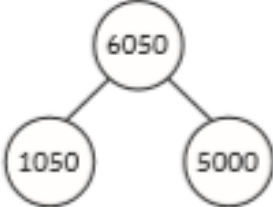

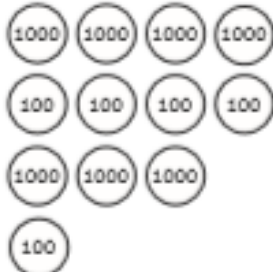
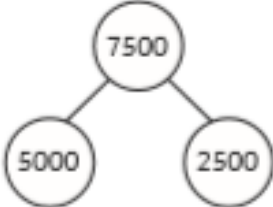
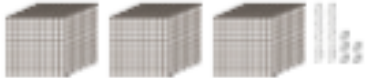
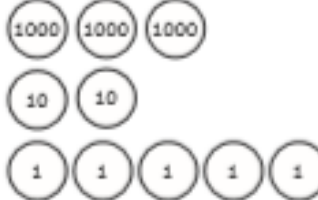
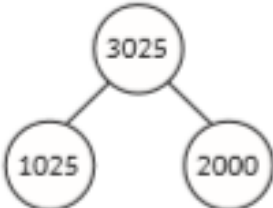
Which four instructions could he have followed from the cards above?

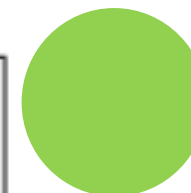
Is there more than one possibility? He can only use each card once in each set of instructions.

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ANSWERS

1)

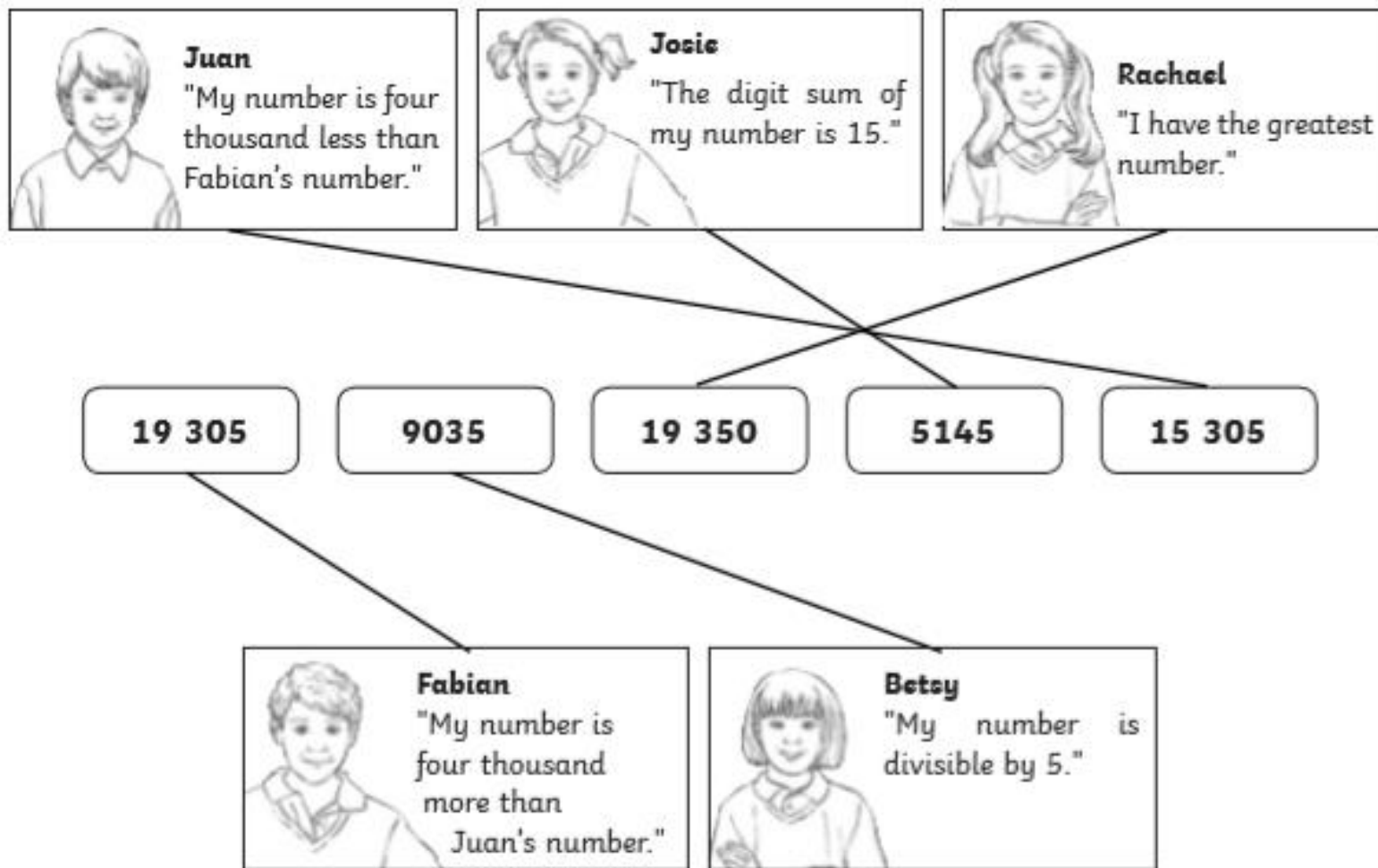
			<p>6050</p>
			<p>7500</p>
		 <p><i>There are many correct representations; this is one example.</i></p>	<p>3025</p>



2)

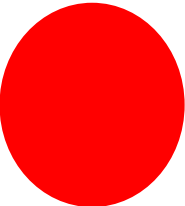
	+ 100	-10	+ 1000	- 100
3036	3136	3026	4036	2936
6905	7005	6895	7905	6805
6812	6912	6802	7812	6712
8750	8850	8740	9750	8650
What happens to the original number as you add or subtract each multiple of 10?	<i>When you add 100, only the hundreds digit changes unless you cross the thousands boundary.</i>	<i>When you subtract 10, only the tens digit changes unless you cross the hundreds boundary.</i>	<i>When you add 1000, only the thousands digit changes unless you cross the tens of thousands boundary.</i>	<i>When you subtract 100, only the hundreds digit changes unless you cross the thousands boundary.</i>

1) a)



b) Multiple answers possible. Children may suggest that Betsy's clue is the least helpful, as all the numbers are divisible by 5 and therefore her clue does not eliminate any numbers; they might also suggest that Juan's or Fabian's clues are the least helpful, as they both express the same clue in different ways.

1) Example answer: Ahmed is incorrect. The correct answer is 14 006. He has added on 100 too many, which is a common error when counting through the thousands.

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- 1)
 - a) Multiple answers possible, such as 10 503, 11 103 or 12 903. The positive number must be less than 13 000 and have zero tens and three ones.
 - b) Multiple answers possible, such as 18 703, 20 003 or 25 103. The number must be more than 18 0000 and have zero tens and three ones.
 - c) Multiple answers possible; accept any negative number that ends in 97. Children might identify the first positive number he may have said as being 3 and then subtract 100 from this, giving -97.
 - 2) There is more than one possibility. For example, he may have followed the instructions: + 100, - 1000, - 10, + 1000.