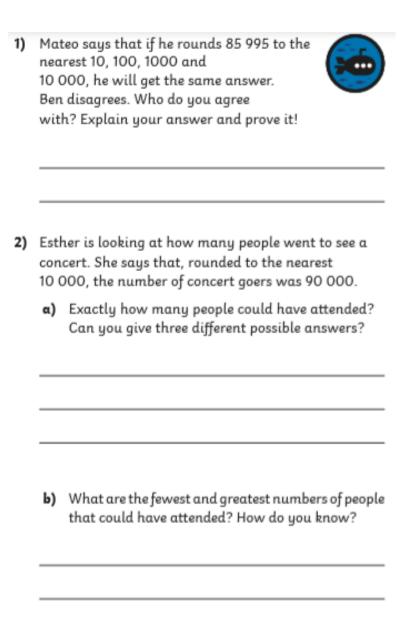


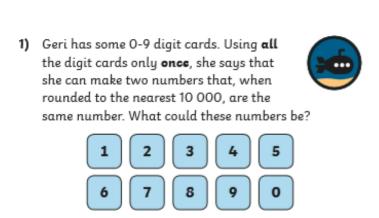
1) Complete the table.

	Round to the nearest 10	Round to the nearest 100	Round to the nearest 1000	Round to the nearest 10 000
52 254				
12 989				
75 348				

2) What could the starting number be for each row?

Round	Round	Round	Round
to the	to the	to the	to the
nearest	nearest	nearest	nearest
10	100	1000	10 000
43 820	43 800	44 000	40 000
43 830	43 800	44 000	40 000
43 970	44 000	44 000	40 000





2) Using all the digit cards only once, is it possible to make two numbers that, when rounded to the nearest 10 000, make 10 000? Explain your thinking.

ANSWERS

1)		Round to the	Round to the	Round to the	Round to the
		nearest 10	nearest 100	nearest 1000	nearest 10 000
	52 254	52 250	52 300	52 000	50 000
	12 989	12 990	13 000	13 000	10 000
	75 348	75 350	75 300	75 000	80 000

2)		Round to the	Round to the	Round to the	Round to the
		nearest 10	nearest 100	nearest 1000	nearest 10 000
	43 815 -	43 820	43 800	44 000	40 000
	43 824				
	43 825 -	43 830	43 800	44 000	40 000
	43 834				
	43 965 -	43 970	44 000	44 000	40 000
	43 974				

- Ben is correct. Rounded to the nearest 10, 85 995 is 86 000. Rounded to the nearest 100, it is 86 000. Rounded to the nearest 1000, it is 86 000. Rounded to the nearest 10 000, it is 90 000.
- Esther is looking at how many people went to see a concert. She says that, rounded to the nearest 10 000, the number of concert goers was 90 000.
 - a) Possible answers include 85 000, 85 123 and 86 352. Answers must lie between 85 000 and 94 999.
 - b) The fewest possible number of concert goers is 85 000. The greatest is 94 999.

- There are many possible answers, for example 18 490 and 23 675 both round to 20 000. 34 980 and 27 516 both round to 30 000.
- 2) This is not possible. To be 10 000 when rounded to the nearest 10 000, both numbers would need to be between 9500 and 10499. As you have to use all of the digit cards, both numbers would need to be 5 digits and as you can only use each card once, it is impossible to make a two numbers with one ten thousand.