Round integers to the nearest power of ten

1 Complete the sentences.

a) 57 rounded to the nearest 10 is _____

257 rounded to the nearest 10 is _____

657 rounded to the nearest 10 is _____

1,157 rounded to the nearest 10 is _____

230,457 rounded to the nearest 10 is _____

b) 1,183 rounded to the nearest 10 is _____

1,184 rounded to the nearest 10 is _____

1,185 rounded to the nearest 10 is _____

1,186 rounded to the nearest 10 is _____

2 Mo is rounding 1,288 to the nearest 100

> I looked at the hundreds and there are 2 hundreds. This is less than 5, so I will keep it.

> So 1,288 rounded to the nearest 100 is 1,200

What mistake has Mo made? What should he have done?

_____

_____

_____

3 Round these numbers to the nearest 100

a) 729 _____   **d)** 11,872 _____

b) 1,705 _____   **e)** 9,975 _____

c) 7,650 _____   **f)** 45 _____

4 The number of people at a concert rounded to the nearest 100 is 15,600

a) How many people could have been at the concert?
Circle all the possible numbers.

15,580   15,492   15,658   15,642

b) What is the greatest number of people that could have been at the concert?

_____

Explain your answer.

_____

_____

5 Aisha rounds an integer. Her answer is 7,000

> Aisha must have rounded her number to the nearest 1,000

> Aisha could have rounded to the nearest 10, 100 or 1,000

Rosie   **Mo**

Who is correct? _____

Give reasons for your answer.

_____

_____

6 a) Complete the table.

Number	Rounded to the nearest 10,000	Rounded to the nearest 1,000	Rounded to the nearest 100
36,892			
81,055			
7,908			
126,388			

b) Here is some information about another number.

Number	Rounded to the nearest 10,000	Rounded to the nearest 1,000	Rounded to the nearest 100
	20,000	17,000	17,300

What could the number be?

Give five possible examples.

_____

_____

7 Here are some digit cards.

2	9	5	0	4

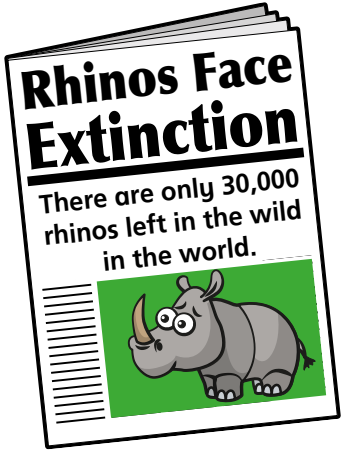Use all the digits to make a number that will round to:

- 43,000 to the nearest 1,000

- 95,200 to the nearest 10

- 50,000 to the nearest 10,000

Compare answers with a partner.

8 Here is an article from a newspaper.

Rhinos Face Extinction

There are only 30,000 rhinos left in the wild in the world.

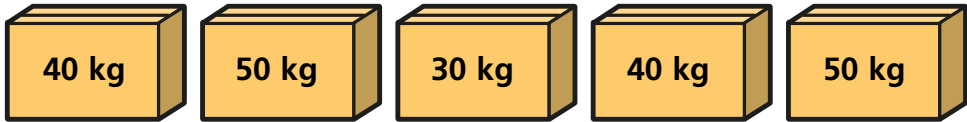**a)** Do you think there are exactly 30,000 rhinos left in the wild?

Give reasons for your answer.

b) What is the greatest possible number of rhinos?

c) What is the least possible number of rhinos?

d) Compare your answers to part b) and c) with a partner.

9 These are the weights of 5 boxes rounded to the nearest 10 kg.

40 kg	50 kg	30 kg	40 kg	50 kg

The boxes need to be put on a pulley lift to transport them to the top floor of a building.

The maximum load of the lift is 225 kg.

Is it safe to transport all 5 boxes at once? _____

Explain your reasoning.

_____

_____