

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



Rosie

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

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



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			

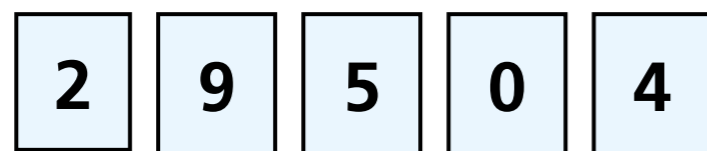
b) Here is some information about another number.

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.



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.



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.



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.
