## Round integers to the nearest power of ten

Complete the sentences
a) 57 rounded to the nearest 10 is $\square$


657 rounded to the nearest 10 is 660
1,157 rounded to the nearest 10 is $\quad 1,160$
230,457 rounded to the nearest 10 is 230,460
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 $\square$

Mo is rounding 1,288 to the nearest 100


What mistake has Mo made? What should he have done?
-He should have looked at the tens column $\qquad$
1,288 rounded to the nearest 100 is 1,300Round these numbers to the nearest 100
a) 729
b) 1,705
1,700
c) 7,650
7,700
d) 11,872 $\square$
11,900
f) 45
10,000

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.
15,492
15,658
15,642
b) What is the greatest number of people that could have been at the concert?

$$
15,649
$$

Explain your answer.
15,649 is the greatest integer that rounds to
15,600 to the nearest 100 . 15,650 would round to 15,700
Aisha rounds an integer. Her answer is 7,000


Who is correct? $\quad \mathrm{M}$ $\qquad$
Give reasons for your answer.
7,001 rounds to 7,000 to the nearept 10,100 and 1,0020
6)
a) Complete the table.

| Number | Rounded to the <br> nearest 10,000 | Rounded to the <br> nearest 1,000 | Rounded to the <br> nearest 100 |
| :---: | :---: | :---: | :---: |
| 36,892 | 40,000 | 37,000 | 36,900 |
| 81,055 | 80,000 | 81,000 | 81,100 |
| 7,908 | 10,000 | 8,000 | 7,900 |
| 126,388 | 130,000 | 126,000 | 126,400 |

b) Here is some information about another number.

| Number | Rounded to the <br> nearest 10,000 | Rounded to the <br> nearest 1,000 | Rounded to the <br> nearest 100 |
| :---: | :---: | :---: | :---: |
|  | 20,000 | 17,000 | 17,300 |

What could the number be?
Give five possible examples.
Any fise numbers between 17,250 and 17,349
lenclusive

Here are some digit cards.


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

- 43,000 to the nearest 1,000

42,950
95,200 to the nearest 10
95,204

49,520

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?

$$
34,999
$$

c) What is the least possible number of rhinos?
d) Compare your answers to part b) and c) with a partner.

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? $\qquad$
Explain your reasoning.
$40+50+30+40+50=210 \mathrm{~kg}$ Each box could weigh
wp to 5 kg more than it is labelled. $5 \times 5 \mathrm{~kg}=25 \mathrm{~kg}$ $210 \mathrm{~kg}+25 \mathrm{~kg}>225 \mathrm{~kg}$

