Order a list of integers

Some numbers are listed in the place value table.

| TTh | Th | $H$ | T | O |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 0 | 7 | 0 | 9 |
| 3 | 7 | 9 | 0 | 0 |
| 2 | 7 | 9 | 0 | 3 |
| 2 | 0 | 3 | 0 | 7 |

a) Which is the greatest number?
b) How do you know that number is the greatest?

It has the greatest number of ten thousands.
c) Write the numbers in descending order.
$\qquad$

| Write the values in ascending order. |
| :--- |
| a) $13,000 \mathrm{~kg}$ $15,700 \mathrm{~kg}$ $12,995 \mathrm{~kg}$ $8,700 \mathrm{~kg}$ <br>  $8,700 \mathrm{~kg}$ $12,995 \mathrm{hg}$ $13,000 \mathrm{~kg}$ |

b)

| 3 million | two hundred thousand | 950,000 | 89,000 |
| :--- | ---: | ---: | ---: |
| 89,000 | two hundred thousand | 950,000 |  |
| 3 miltion |  |  |  |

Whitney is writing some numbers in order, starting with the greatest.
She writes these numbers.

$$
\begin{array}{llll}
99,999 & 90,009 & 11,111 & 100,001
\end{array}
$$

Whitney correct? $\qquad$

Explain your answer.
She hasn't considered the place value of the digits

5
Here are the transfer fees of four footballers.

| Player | A | B | C | D |
| :---: | :---: | :---: | :---: | :---: |
| Transfer fee | $£ 8.2$ million | $£ 8$ million | $£ 8.02$ million | $£ 81,000,000$ |

a) Which player has the highest transfer fee? $\qquad$
b) Which player has the lowest transfer fee? B BWrite the missing digits to make the inequality statement correct.
E.g. $5,10 \perp<5,1 \perp 0<5, \perp 11<5, \perp 21$

Is there more than one solution?

The populations of the world's largest cities are listed in the table.

| City | Country | Population |
| :---: | :---: | :---: |
| Tokyo | Japan | 38000000 |
| Delhi | India | 25700000 |
| Shanghai | China | 23700000 |
| Sao Paulo | Brazil | 21050000 |
| Mumbai | India |  |
| Mexico City | Mexico | 20990000 |

The population of Sao Paulo is expected to increase by 6 million by 2050
The population of Shanghai is expected to increase by 3 million by 2050
a) Is there expected to be more people in Sao Paulo or Shanghai by 2050?
$\qquad$
b) The population of Mumbai in India is in 5th position.

$$
\text { What could be the population of Mumbai? E.g. } \quad 21,000,000
$$

How many possible answers are there?
(8) Put one digit in each box so that the numbers are ordered from smallest to greatest from top to bottom.
E.g.

| HM | TM | M | HTh | TTh | Th | H | T | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 5 | 4 | 0 | 1 | 0 |
| 0 | 7 | 2 | 0 | 9 | 6 | 2 | 3 | 2 |
| $\bigcirc$ | 8 | $\bigcirc$ | 1 | 0 | 0 | 1 | $\bigcirc$ | $\bigcirc$ |
| 1 | 2 |  | 5 |  | 8 | ( | 4 |  |
| 1 | 2 | 0 | 5 | 0 | 8 | 0 | 4 | 4 |

Is there more than one solution?
(1)

