

MATHS

YEAR 6

NUMBER: NUMBER AND PLACE VALUE

NC. Objective: To read, write, order and compare numbers up to 10,000,000; round whole numbers to a required degree of accuracy; use negative numbers in context and calculate intervals across 0.

1. The palace scribes recorded the number of visitors during the great Winter Festival as: 6,405,728.

- a) Write this number in words.
- b) Write the number that is one thousand more than this.
- c) Write the number that is ten thousand less than this.



2. While exploring the frozen hills of Bohemia, the shepherds counted eight million, seven hundred and thirty-nine thousand, four hundred and sixty-five falling snowflakes.

- a) Write this number in digits.
- b) Write the number that is 100,000 more than this.
- c) Write the number that is 1,000 less than this.



3. The shepherds counted sheep across the frozen plains.
Write <, > or = to compare the numbers.

7,450,382	<input type="text"/>	7,405,832
9,002,106	<input type="text"/>	8,998,999
6,120,500	<input type="text"/>	6,120,050
2,481,070	<input type="text"/>	2,481,007
6,084,811	<input type="text"/>	6,084,811



4. Put these numbers in ascending order.

3,482,105 3,428,501 3,845,210 3,482,150

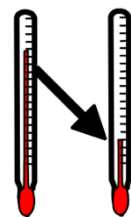
5. Paulina records the distance of her journey to Bohemia as 4,673,849 steps. Round this number to the nearest:

- a) 10 →
- b) 100 →
- c) 1,000 →
- d) 10,000 →
- e) 100,000 →
- f) 1,000,000 →



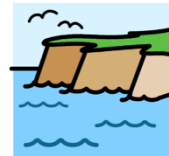
6. The temperature during the night storm fell from 5°C to -18°C .

- a) What was the total change in temperature?
- b) By how many degrees did the temperature cross 0°C ?

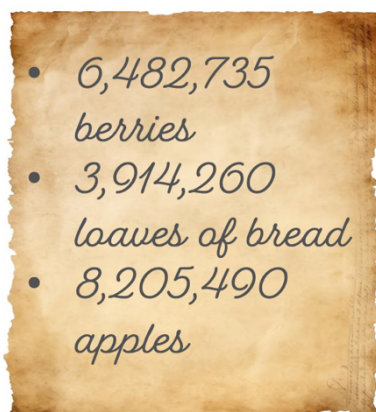


7. Hermione walked along the cliffs near the palace. The path started at -4 metres below the old watchtower and ended at 3 metres above it.

- a) What was the total change in height during Hermione's walk?
- b) Write the calculation you used.



CHALLENGE



During the winter feast in Sicilia, the palace cooks recorded how much food was served.

At the end of the feast, the kitchen stores were counted at -2,350 baskets.

- a) Put the three food amounts in descending order.
- b) Round each amount to the nearest 100,000.
- c) Estimate the total number of items served using your rounded numbers.
- d) Explain why rounding is useful for the cooks when recording such large amounts.
- e) What does the number -2,350 tell us about the number of baskets used at the feast?
Explain your answer in words.