

## MATHS

### YEAR 5

#### NUMBER: NUMBER AND PLACE VALUE

**NC. Objective:** To interpret negative numbers in context; round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000; recognise years written as Roman numerals.

1. The castle moat froze during the winter. The temperature fell to  $-4^{\circ}\text{C}$  at night and rose to  $2^{\circ}\text{C}$  during the day.

- a) What is the difference between the daytime and night time temperatures?  
b) If the temperature drops by  $6^{\circ}\text{C}$  from  $2^{\circ}\text{C}$ , what will the new temperature be?



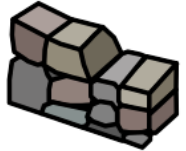
2. The Royal Treasury recorded the balance of Hamlet's gold coins as  $-7$  coins after he borrowed some to host a feast.

- a) If Hamlet repays 10 coins, what will his balance be?  
b) How many coins does Hamlet need to repay to reach a balance of 0?



3. Hamlet was standing on the castle wall, 10 meters above ground level. Laertes was stuck in the dungeon, 5 meters below ground level.

- a) How far apart were Hamlet and Laertes?  
b) If Laertes climbed 8 meters, where would he be in relation to ground level?



4. The population of Denmark is 347,895 people. Round this number:

- a) to the nearest 10.  
b) to the nearest 100.  
c) to the nearest 1,000.  
d) to the nearest 10,000.  
e) to the nearest 100,000.



5. Hamlet's army has 583,249 soldiers. Round this number:

- a) to the nearest 10.  
b) to the nearest 100.  
c) to the nearest 1,000.  
d) to the nearest 10,000.  
e) to the nearest 100,000.



6. This is the plaque on the front of Hamlet's castle:



- In what year was the castle built?
  - Write the year in numerals.
  - What would the year be 200 years later? Write your answer in Roman numerals.
7. The ghost of King Hamlet said he was born in the year MCDLXXVI and died in MDI.
- Write both years in numerals.
  - For how many years did King Hamlet live?



### CHALLENGE

The ghost of King Hamlet left a message about hidden treasure in the castle:

“The treasure is hidden in a room numbered the same year I became king. Start with the number 482,673, round it to the nearest 10,000 and subtract the temperature of the castle dungeons in the winter (-12°C). The answer will reveal the year when I claimed the throne. Write down the year in Roman numerals to help you find the room.”

Follow the clues and solve the puzzle to find which room the treasure is hidden in!