



Welcome to this week's Maths Challenge!

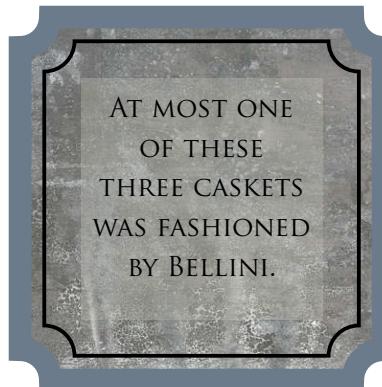
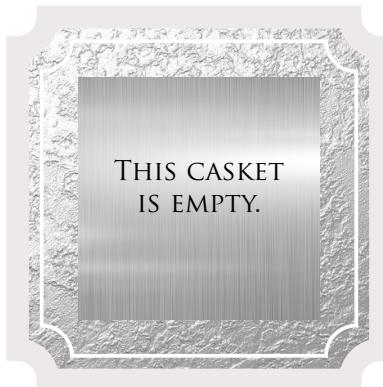
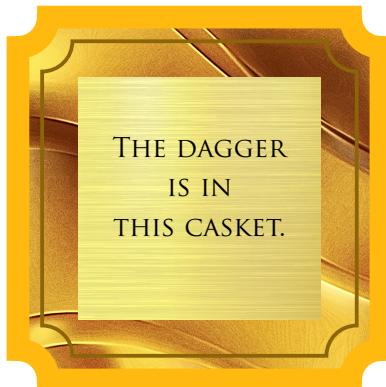
Have a go at all three questions!

Drop your solution in the box in the staffroom by Tuesday.

### All years, question 1

Welcome to the third installment of Portia's Caskets! This time, Portia tells you that every casket has been made by one of two famous Florentine craftsmen, Bellini and Cellini. She explains that Cellini always writes a false statement on the lids of the caskets he makes, while Bellini only puts true statements on the lids of the caskets he builds. As before, Portia is truthful.

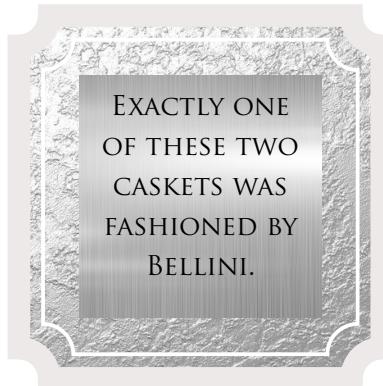
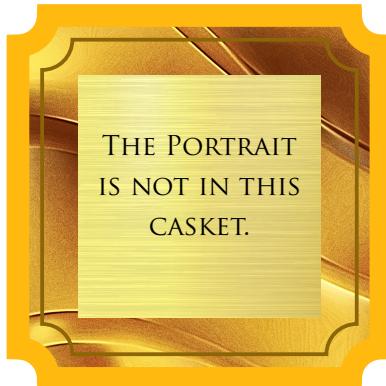
For this first puzzle, Portia tells you that she has hidden a dagger in one of the caskets. To pass this test, you must avoid choosing the casket with the dagger.



### All years, question 2

In this test, Portia places a portrait of herself in one of only two caskets, there are no daggers. As in the first puzzle, each casket is made by either Cellini or Bellini.

Which casket holds Portia's portrait?



### All years, question 3

Again each of the caskets has been fashioned either by Bellini or Cellini. Portia has again placed a portrait of herself in one of the three boxes. This time, to win the prize (a moment of inspiration on a foggy day) you must find the portrait and tell the maker of each casket.

THE PORTRAIT  
IS IN HERE.

THE PORTRAIT  
IS IN HERE.

AT LEAST  
TWO OF THESE  
CASKETS WERE  
FASHIONED BY  
CELLINI.