



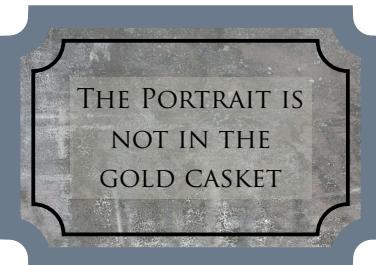
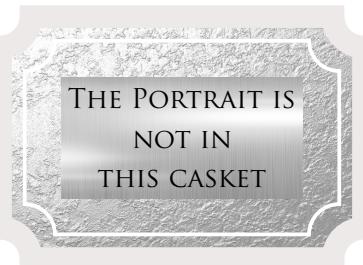
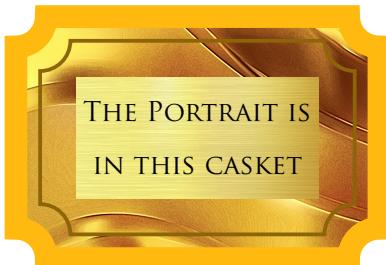
Welcome to this week's Maths Challenge!

Have a go at both questions!

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

Year 8 and below

In Shakespeare's 'Merchant of Venice', Portia had three caskets - lead, silver and gold - inside one of which was Portia's portrait. Raymond Smullyan used this idea to write a series of logic puzzles, two of which you see here. To win the prize (one minute in the Total Perspective Vortex) you must say which casket holds the portrait. Portia tells you that, of the three statements on the caskets, at most one is true. Portia is truthful.



Year 9 and above

Please read the introduction above, and try the first puzzle.

This time Portia explains to you that at least one of the three statements is true and that at least one of the three statements is false. Portia is truthful. Which casket holds the portrait?

