

Maths Challenge for year 8

1. Which is the larger fraction?
 $\frac{4}{9}$ or $\frac{7}{13}$
2. Peter has been making tea for everyone. Yesterday he had 12 cups and 10 matching saucers, but this morning he dropped a tray holding one third of the cups and half the saucers, breaking all of those on the tray. How many of his cups are now without saucers?
3. m and n are two positive whole numbers. If $m^2 + 2 = n^3$ which of the following is a possible value for m ?
2 3 4 5 6
4. I bought a T.V. for £240.00 in a sale offering 25% reduction. How much did I save.
5. The ratio $m:n = 2:3$ and the ration of $m:p$ is $3:4$. What is the ratio of $n:p$.

Bring your answers to your maths teacher by 9th July 2004.