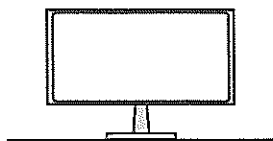


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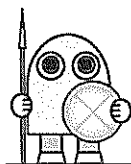
outnumbered



Here are some facts about Lucy's class :

- a In the annual School Survey, half the boys in this class gave 'computer games' as their favourite pastime; just one quarter of the girls gave the same answer.
- b The class has twice as many girls as boys.

Use these facts to work out what fraction of the class as a whole chose computer games as 'favourite pastime'.



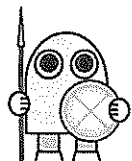
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le sport

21 children on a school holiday in France are given 'free time' on their last afternoon. Their hotel has tennis courts and a swimming pool. Here are some facts about what they choose to do :

- o The number of children who swim and play tennis during the afternoon is exactly the same as the number of children who do neither of these things.
- o 9 children swim but don't play tennis
- o The number of children who play tennis but don't swim is exactly the same as the number of children who do both of these things.

Using a Venn Diagram to help you, work out how many of the children do both activities.



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fraction patterns

Notice that $1 = \frac{1}{1}$

and $1 + \frac{1}{2} = \frac{3}{2}$

Now work these out for yourself :

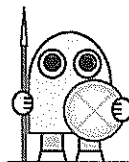
$$1 + \frac{1}{2} + \frac{1}{4}$$

$$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$$

$$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16}$$

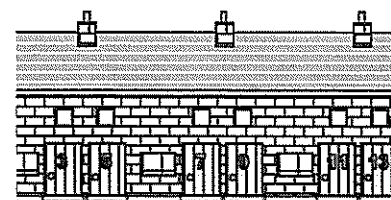
Look for the pattern in these sums and then write down what this one must come to :

$$1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64} + \frac{1}{128}$$



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Edward counts



Edward is walking home along Labumum Avenue; he's on the odd side, of course, because that's the side where he lives. As he goes along, he adds the door-numbers together in his head, starting, naturally, with number 1 and finishing with his own door-number. He loves doing this because the total is always 100 (unless he makes a mistake). What's Edward's address?