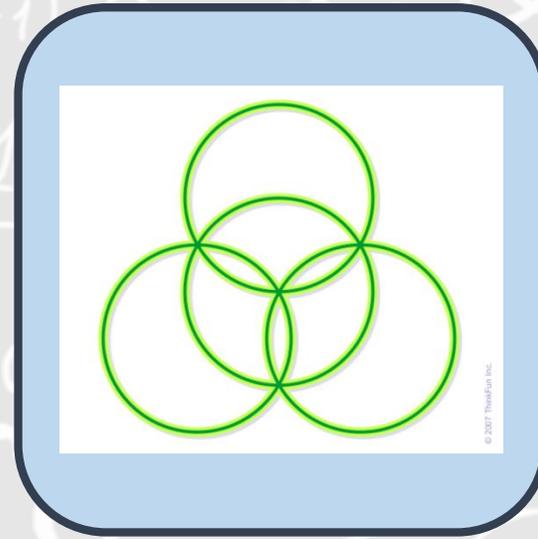
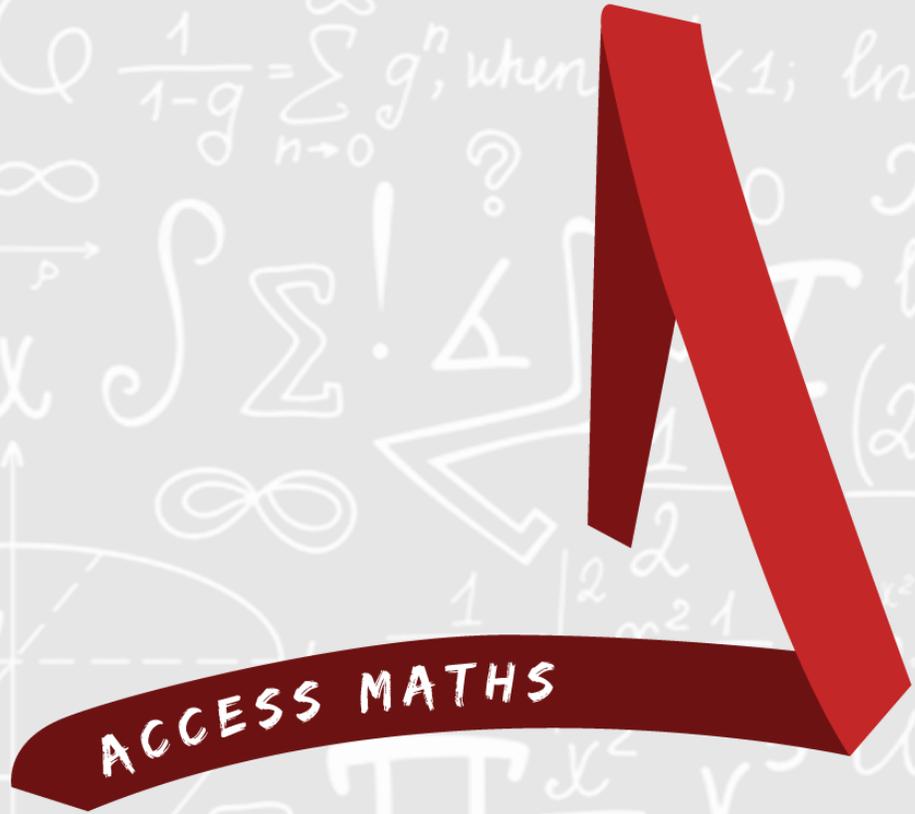


NUMNERACY CHALLENGE



LEVEL 1



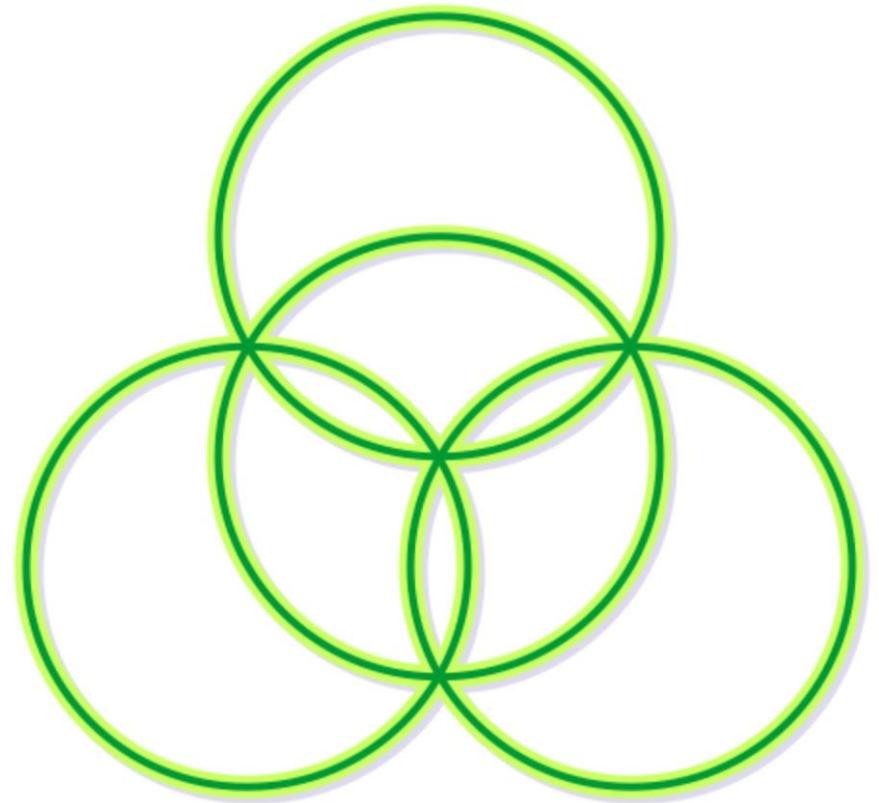
LEVEL 2

NUMERACY CHALLENGE

Try to draw this pattern of four crossing circles with a pencil in one continuous line.

This means that you don't take the pencil point off the paper.

Also, you aren't allowed to go over any part of the line twice, or cross it.



© 2007 ThinkFun Inc.

LEVEL 1

NUMERACY CHALLENGE

If you write down all the numbers from 1 to 100 inclusive (including 1 and 100), what is the total of all the individual digits?

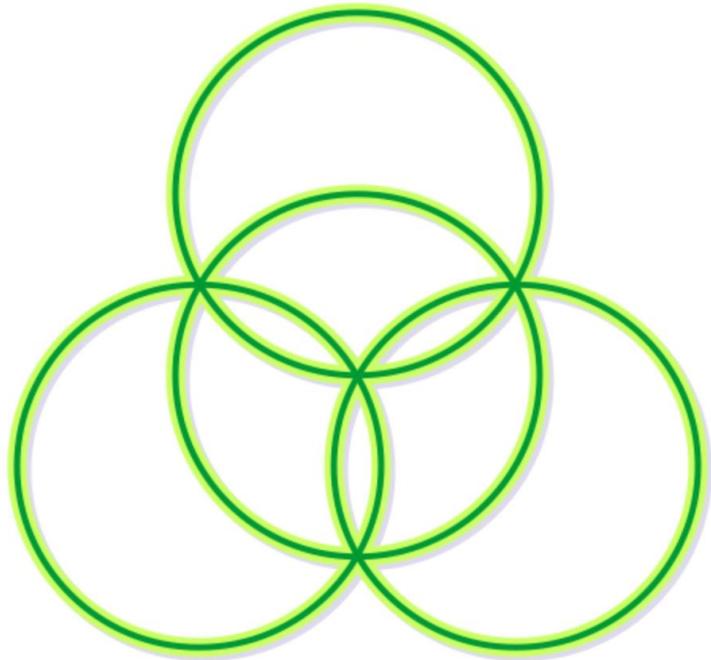
[For instance, the digits in the number 56 are 5 and 6, which totals 11]

There might be a quick, structured way of doing this.... Can you find it?



The largest bank note in England is the one hundred million pound note, nicknamed a Titan. It is only used internally at the Bank of England, and there are only 40 in existence.

NUMERACY CHALLENGE LEVEL 1



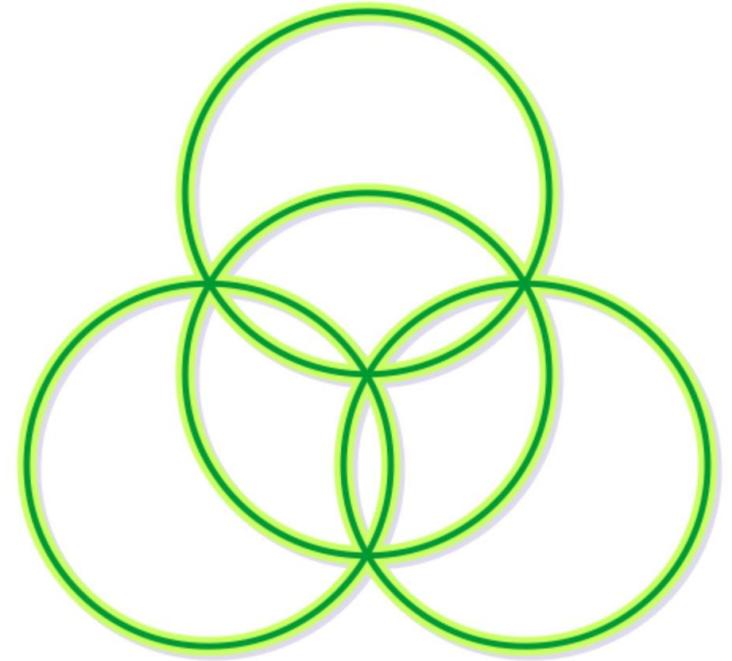
© 2007 ThinkFun Inc.

Try to draw this pattern of four crossing circles with a pencil in one continuous line.

This means that you don't take the pencil point off the paper. 

Also, you aren't allowed to go over any part of the line twice, or cross it.

NUMERACY CHALLENGE LEVEL 1



© 2007 ThinkFun Inc.

Try to draw this pattern of four crossing circles with a pencil in one continuous line.

This means that you don't take the pencil point off the paper. 

Also, you aren't allowed to go over any part of the line twice, or cross it.

NUMERACY CHALLENGE LEVEL 2

If you write down all the numbers from 1 to 100 inclusive (including 1 and 100), what is the total of all the individual digits?

[For instance, the digits in the number 56 are 5 and 6, which totals 11]

100

There might be a quick, structured way of doing this.... Can you find it?

NUMERACY CHALLENGE LEVEL 2

If you write down all the numbers from 1 to 100 inclusive (including 1 and 100), what is the total of all the individual digits?

[For instance, the digits in the number 56 are 5 and 6, which totals 11]

100

There might be a quick, structured way of doing this.... Can you find it?

LEVEL 1

See solution.

LEVEL 2

Answer:

901

If you ignore 100 for the moment, all the unit digits 1-9 occur 10 times, so the sum of $1 + 2 + 3... + 9$ is 45

so the units add to $45 \times 10 = 450$.

In the tens digits, each of those also occurs 10 times so you have another 450, then you need to add the 1 for the 100. So you get 901

