

NUMBERS!

Abundant numbers: A number that is smaller than the sum of its proper divisors.

$$12 - \text{sum of proper divisors} = 1+2+3+4+6=16$$

12 is smaller than 16

Can you find 5 more abundant numbers?

As long as worms
are abundant, I
don't really care!

Proper divisors: All
positive divisors of a
number, except the
number itself.

Positive divisors of 18
are: 1,2,3,6,9,18

So the proper divisors
are: 1,2,3,6,9.

Deficient Numbers: A number that is larger than the sum of its proper divisors.

$$14 - \text{sum of proper divisors} = 1+2+7=10$$

14 is larger than 10

Can you find 5 more deficient numbers?



Perfect Numbers: A number that is equal to the sum of its proper divisors.

$$6 - \text{sum of proper divisors} = 1+2+3=6$$

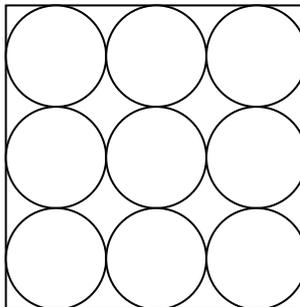
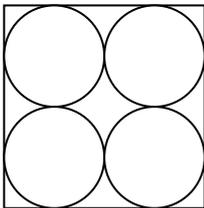
Find the next perfect number.



I reckon I'm
the only perfect
thing on this
page!

Figurate Numbers: numbers that can be represented in a geometric shape, including square, triangular and pentagonal numbers.

Square Numbers:



What are the next 7
square numbers?