

Morning Work

Monday 1st February 2021

There are lots of ways of making 8 with four 2s using standard mathematical notation. For example:

$$2+2+2+2, \text{ or}$$

$$\text{even } 2^{2+2} \div 2.$$

Can you find another way?

Can you find a way of making 9 with four 2s?

What is the biggest number you can make with four 2s?

What is the smallest number you can't make with four 2s?

Morning Work

Tuesday 2nd February 2021

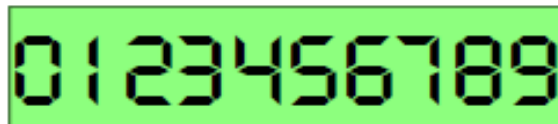
Petrol Prices

☆☆ **17**

Some petrol stations display prices by sticking **segments** together to make numbers.



What is the **largest** number you can make with 10 **segments**?

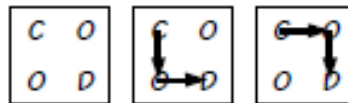


What is the **largest** you can make with 16 **segments**?

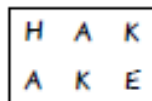
Morning Work

Wednesday 3rd February 2021

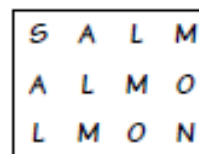
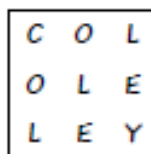
If you write the word **COD** in a grid like this there are two ways of spelling the word.



How many ways can you make **HAKE**?



What about **COLEY** or **SALMON**?

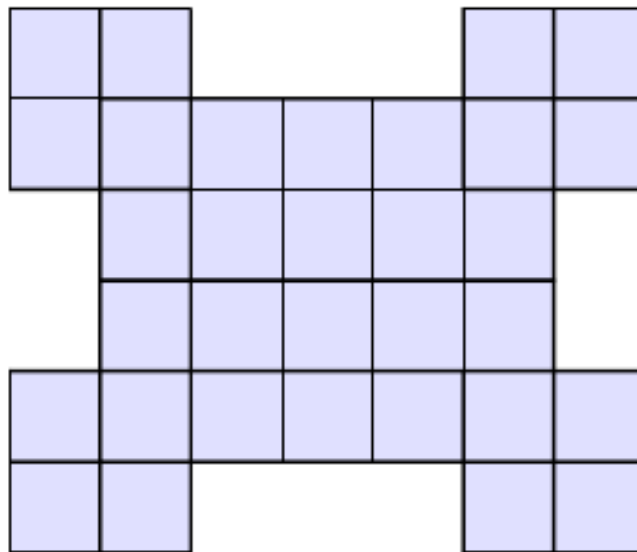


Can you **predict** how many ways there are to make **BARRACUDA**?

Morning Work

Thursday 4th February 2021

How many squares can you see in this pattern?

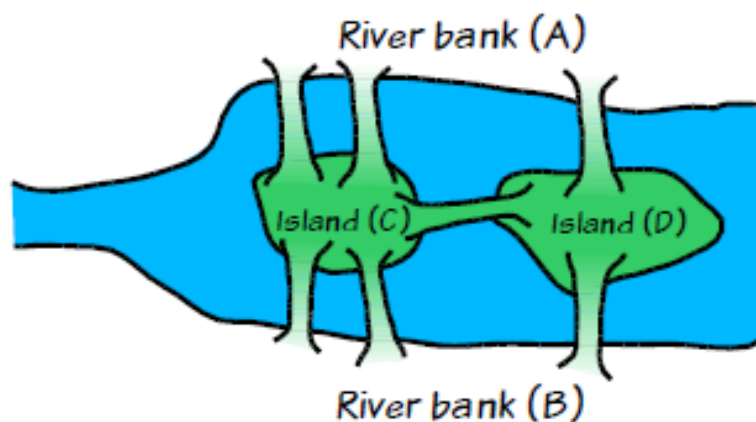


How many rectangles are there?

Morning Work

Friday 5th February 2021

The city of Königsberg had seven bridges that crossed the river Pregel.



Can you find a way of crossing **all the bridges **exactly** once?**

You can't go over a bridge more than once.