



Please go through each slide stopping until you have understood the concept described

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SUN FUN

Add ------SWIM

The numbers you can use are 0,1,2,3,6,7 or 9.

You may not use 4,5 or 8









24 - Letter Sums

Beach

SUN 136
FUN 936
Add -----SWIM 1072

The solution is: Remember, if the units add up to more than

10 then 1 is carried forward to the ten's

column.

S+F=SW . S must be 1

(Remember • means Therefore)





	SUN	136
	FUN	936
Add		
	SWIM	1072

W must be 0 or 1 because, if there was 1 to carry forward to the hundreds column then W would be 1

But S is already 1 so W cannot be 1. ∴ W=0. And F=8 or 9 but 8 is not allowed.

Also there is no 10 to carry forward from the ten's column.

Numbers not yet used are 0,2,3,6,7



24 - Letter Sums

	SUN	136		
	FUN	936		
Add			Numbers not yet used are 0,2,3,6,7	
	SWIM	1072	,	

N+N = M so M is an even number.

If N=2 then M=4 which is not allowed because 4 is not to be used.

If N=3 then M=6.

If N=4 then M=8 which is not allowed because 4 and 8 are not to be used.

N cannot be 5.

If N=6 then M=2,

If N=7 then M=4 which is not allowed.

If N=9 then M=8 which is not allowed.

∴ N can only be 3 or 6, and M can only be 6 or 2



24 – Letter Sums

	SUN	136
	FUN	936
Add		

SWIM

1072

Numbers not yet used are 0,2,3,6,7

U+U = I but there may be 10 to carry forward from the unit's column.

If U=2 then I=4 or 5 which is not allowed. So U cannot be 2

If U=3 then I=6 or 7.

If U>4 there is ten to carry forward which is not allowed,

∴ U is 2 or 3 and I is 5 or 7 but 5 is not allowed.

Sums. The're Math Magic

Beach

SUN 136
FUN 936
Add -----SWIM 1072



N can only be 3 or 6, and M can only be 6 or 2 U is 2 or 3 and I is 5 or 7

Try N=3.

SUN 1U3

FUN 9**U**3

Add -----

SWIM 1016 the l is the letter.

If U=2 then I=4 not allowed

But U cannot be 3 if N is 3

So N cannot be 3



SUN 136
FUN 936
Add -----SWIM 1072



Numbers not yet used are 0,2,3,6,7

N can only be 3 or 6, and M can only be 6 or 2 U is 2 or 3 and I is 5 or 7

Try **N**=6.

SUN 1<mark>U</mark>6 FUN 9<mark>U</mark>6 Add -----

SWIM 1012 the list the letter.

U cannot also be 2 because M would be 2



SUN 136
FUN 936
Add -----SWIM 1072



Numbers not yet used are 0,2,3,6,7

N can only be 3 or 6, and M can only be 6 or 2 U is 2 or 3 and I is 5 or 7

Try U=3

I = 7 because there is 10 carried forward from the unit's column.

So S=1, F=9, U=3, I=7,N=6 and W=0



Here each X can be any number from 0 to 9

$$XXXXXX \div XXX = 7XX$$

It helps if you rewrite the equation as





$$XXXXXX \div XXX = 7XX$$

The first digit of the divisor XXX must be 1

7XX XXX No Remainder





$$XXXXXX \div XXX = 7XX$$

Using $7 \times 1XX = 9XX - 7$ (the 7 left over)

9XX must be more than 990

So 1XX must be 142 and $7 \times 1XX = 994$

because 7 X 143 = 1001 which is too large

and $7 \times 141 = 987$ which is too small





$$XXXXXX \div XXX = 7XX$$





$$XXXXXX \div XXX = 7XX$$

We now need a number X where X x 142 is greater than 700

The only X that works is $5 \times 142 = 710$

 $5 \times 142 = 700$ because $6 \times 142 = 852$

Sum Trigx

705 142 1001710

710 Remainder

What is Sin Q + Cos Q?

Tan Q

You are welcome.





Please go to the next lesson.

More Geometric Sums

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