## - COMBINATION CRACKER - COMBINATION 2 -

	Instruction	Working out	New Result
Α	In the following equation Y=7x+4 What is the slope?		a = 7
b	If you raise the previous equation's graph up 3 units, what would the y-intercept be?		b = 7
С	Multiply answers a and b	7*7	c = 49
d	Evaluate 2c+2 where c is the answer from c above	2*49 98+2	d = 100
е	The answer for d is what percent of 27? Rounded to a whole number.	100*100 10000/27	e = 370
f	Add e to 1230	1230 +370	f = 1600
g	Take the square root of f		g = 40
h	Multiply g by the number that is the denominator of the simplest fraction that is equivalent to 25%	40x4	h = 160
i	Multiply the number of days in August to h	160*31	I = 4960
j	Add the answer for i to the year that Albert Einstein was born.	4960+1879	j = 6839
k	Three quarters of j, rounded to a whole #	6839*(3/4)	k=5129
Ι	Add the magic constant of Dürer's magic square to k	5129+34	l=5163
m	Subtract the value of pi rounded to the nearest whole number from I	5163-3	m=5160
n	Subtract the year that Pythagoras was born from m, then add 200	5160-580	n=4780
0	Divide your answer for n by 239	4780/239	o=20
р	Using your answer for o as one leg of a right triangle and 13 as the other leg, find the hypotenuse, whole #	(20*20)+(13*13) Take square root of answer	p=24

See www.teacherLED.com for supporting IWB "Combination Cracker" resource

q	Multiply p by the number of credits you need to graduate from high school in TX	24*26	q=624
r	If q is the volume of a cylinder with a radius of 2, what is the height? Round to a whole #	624/(3.14*4)	r=50
S	Add treinta y cuatro to r (The number is given in Spanish)	50+34	s=84
t	Add s to 4500	4500 +84	t=4584
u	Divide t by the # of yards in a fathom	4584/2	u=2292
V	Double u (haha)	2292*2	v=4584
W	Divide v by the number of math credits needed under the recommended graduation plan for high school in TX.	4584/4	w=1146
х	Multiply w by 3	1146*3	x=3438
У	Deduct the year that is known as the 'The Year of Three Emperors' in Germany	3438 - 1888	y=1550
Z	Add the number of faces found on a icosahedron to y. Now you have the code!Great Job.	1550+ 20	z=1570