

Code Wars 2017

Surprise Prelims

Name : _____

School : _____

Questions marked with ^{42} contribute to the Techathlon event.*

Q 1. Which was the first version of Microsoft to support Plug & Play?

Q 2. Which famous computer was used by British codebreakers to read encrypted German messages during World War II?

Q 3. Name the biggest number that can be formed with four 1's.

Q 4.

			1	
^	v	v		v
			>	3
	5	2	<	<
		4	<	
	>		>	

The arrows indicate whether a number in a box is greater or smaller than an adjacent number. Complete the grid so that all rows and columns contain the numbers 1 to 5.

Q 5. The cherry is a round fruit with a round stone. If the flesh of the cherry around the stone is as thick as the stone itself. How much more pulp than stone there is in the cherry.

Q 6. Here is an epitaph of the celebrated Greek mathematician of 250 AD, Diophantus.

DIOPHANTUS PASSED ONE SIXTH OF HIS LIFE IN CHILDHOOD, ONE TWELFTH OF HIS LIFE IN YOUTH AND ONE SEVENTH MORE AS A BACHELOR; FIVE YEARS AFTER HIS MARRIAGE A SON WAS BORN WHO DIED FOUR YEARS BEFORE HIS FATHER AT HALF HIS FINAL AGE.

How old is Diophantus?

Q 7.^{42*}



Q 8. Raja runs a small poultry farm in Bangalore. He took Nix round to see the place. Nix counted the number of chickens. There were 27 of them. And there were four enclosures. Nix noticed that there were an odd number of chickens in each enclosure. How many chickens were there in each?

Q 9. Which was the first implemented high level programming language?

Q 10. The common fly is considered an appallingly prolific insect. Each female fly is capable of laying 120 eggs at a time. Out of the eggs hatched, half of them are generally females. The female flies hatched grow sufficiently within 20 days to lay eggs themselves. Assuming that the female fly lays her first egg on the 1st of April, can you tell how many eggs will be hatched on the 14th of June?

Q 11.

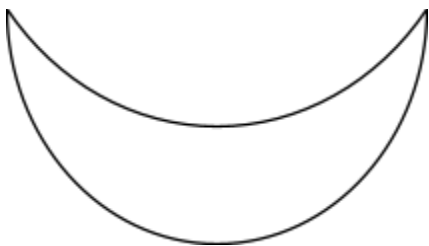


How far is it to Mumbai?

Q 12. O.T.T.F.F.S.S.E.N

What are the next nine letters?

Q 13.

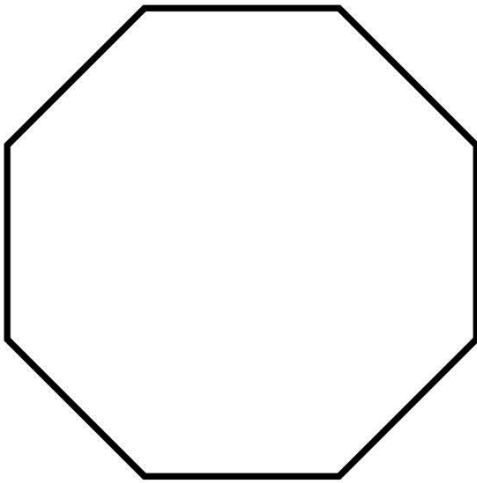


Divide it into six parts by two straight lines.

Q 14.

Nix and Armtz were on a tour of West Germany. It was a very cold winter evening. They stepped in the street to walk to a coffee shop. Armtz is half as tall as Nix. They were dressed similarly. Who felt colder?

Q 15.



Dissect the given figure into five sections such that they make up a square.

Q 16. Expand: NVIDIA

Q 17.

SEVEN VIGINTILLION, THREE HUNDRED FORTY SIX NOVEMDECILLION, SIX HUNDRED FORTY EIGHT OCTODECILLION, FOUR SEPTENDECILLION, FIVE HUNDRED SIXTY SEXDECILLION, NINE HUNDRED EIGHTY SIX QUINDECILLION, TWO HUNDRED FIFTEEN QUATTUORDECILLION, THREE HUNDRED FORTY EIGHT DUODECILLION, FOUR HUNDRED FORTY FOUR UNDECILLION, TWO HUNDRED EIGHTY SIX DECILLION, FOUR HUNDRED FORTY FIVE NONILLION, THREE HUNDRED AND FIVE OCTILLION, ONE HUNDRED FORTY SIX SEPTILLION, THIRTY NINE SEXTILLION, ONE HUNDRED FORTY QUINTILLION, FORTY SIX QUADRILLION, NINE HUNDRED SIXTY TRILLION, SIX HUNDRED SEVENTY EIGHT BILLION, FIVE HUNDRED EIGHTY TWO MILLION, TWO HUNDRED FIFTY SIX THOUSAND AND THREE

Write as numeral.

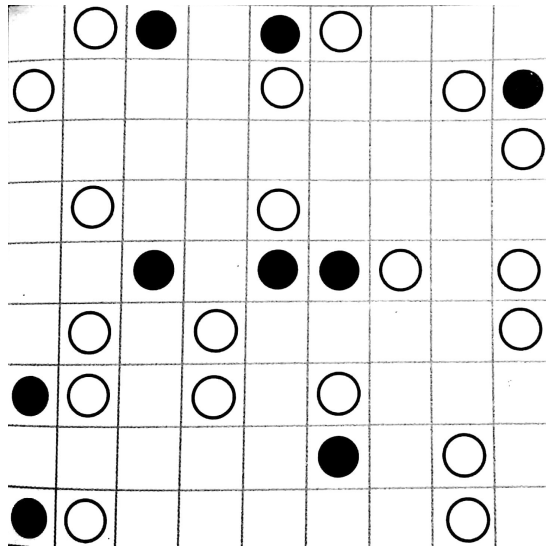
Q 18. Sood was shopping for vegetables at the New Market. He saw two pumpkins of the same quality but of different sizes. One was bigger than the other (circumference 60cm and 50cm). The bigger one was one and a half times more expensive. Which one do you think would have been a better buy.

Q 19. Which was the first electronic general purpose computer?

Q 20. Draw a single line around the grid passing through all the circles. The line must enter and leave each box in the center of one of its four sides.

Black circle: Turn left or right in the box; the line must pass straight through the next and the previous boxes

White circle: Travel straight through the box; line must turn in the next and/or previous box.



Q 21.^{42*}

Identify.

