

# MathEdge

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Creating Sharp Minds for Sharp Solutions

February 2016

## NEWS

### INSIDE THIS ISSUE:

## 15% OFF Summer Programs—until 2/28/16!

Take advantage of the Biggest Saving Ever!! 15% discount for all summer programs till 2/15/16

AM camp (9-12noon, M-F): MathEdge+ (Problem Solving and Contest Training)

PM1 camp (1-4pm, M-F): Writing+ (English Language Arts) | Speech+ (Public Speaking Skills)

PM2 camp (2-4pm, M-F) (G6+): AMC 8/10/12 | MathCounts Prep (Practice on prior contests)

MathEdge offers 8 weeklong Problem Solving and Contest Training morning (AM) camps and English Writing/Speech/AMC Contest Prep afternoon (PM) camps. Signup is by weekly, and materials won't be repeated in other weeks. Lunchtime care is included for students who sign up both AM and PM camps. Snacks are provided every day for each camp. We emphasize having summer fun and learning challenging concepts, and each day (both AM and PM camp) includes lecture, fun puzzles, exercises, and contest. This program will prepare students well for the coming school year.

Get additional discounts for early and/or multiple week signups!

Space is limited, so register early!

For more information, visit <http://www.mathedge.org/summerprograms.html>

## NEW AP Computer Science Program!

CODE+: AP Computer Science I (G9+)

Content This test prep prepares students well for the 2015 revised high school AP Computer Science Exam (10 weeks of 3hrs each): Each week includes 2 hours of concept teaching and 1 hour of test practice.

### COURSE FEATURES:

- Top down and bottom up implementation techniques.
- Object oriented design concepts
- Methods of encapsulation and information binding
- Procedural Abstraction
- Programming Constructs
- Text Outputs
- Control methods including recursion, sequential and conditional execution and iterations
- Expression evaluations
- Program Analysis
- Searching and Sorting
- Standard Data Structures

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### THIS MONTH:

2/14/16—Happy Valentine's Day!

2/15—15% off summer camp discount ends



# Agricultural Water Restrictions

Speech By: Arnav Dani(W3)

**Prompt: If you could make one law, what law would it be?**

My name is Arnav. Today I will be speaking about a new law that should be an addition to the current system of laws.

Did you know that farmers use 97% of California's precious water? The government should introduce a measure that reduces water cuts for the urban residents and increase cuts for farmers if they use an extreme amount of the water. The urban public should not be paying higher bills when saving water and the farmers' bills decreased. It in fact should be the exact opposite. Farmers should save more and also pay more and the public should be able to save what they can and not follow cuts. The public's savings do not help the drought much and the farmer's savings do.

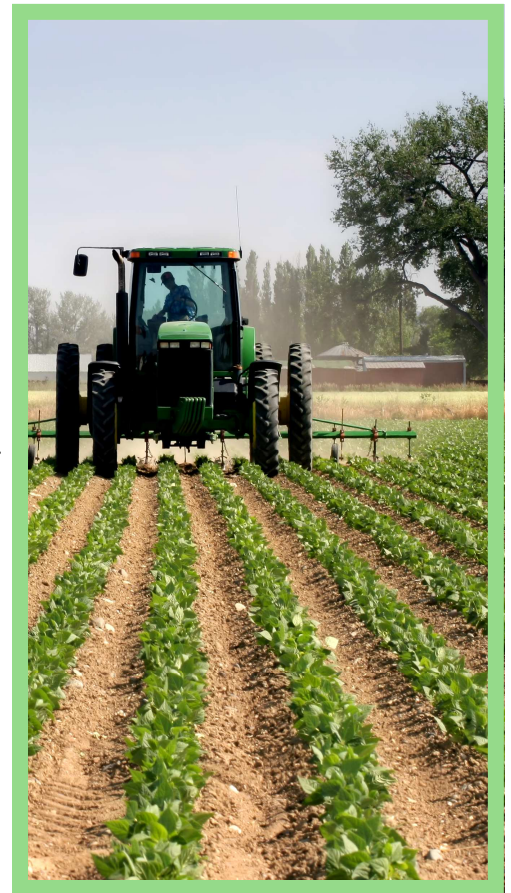
We, as the public, overpay in water costs for water that we sometimes are not even using. The farmers in the Central Valley pay less for the billions of gallons of water they use every year. Farmers do not need to water their agricultural products about 7-10 hours a day, especially during the day. As always, you will bring up, what about the food for California? Farmers may water their plants 3-5 hours in the evening to night. It will save a huge amount of water. This new law will make it happen.

This law saves money for those who need it. For example, if someone with a near minimum wage income wants a glass of water, it will charge them a valuable thirty cents per gallon. The farmers will probably recognize their water usage and reduce their use without threatening. If farmers see that they are the main spenders, they will reduce to minimum capacity. Again, this new law will make this happen.

With farmers actually saving water the drought will improve drastically. The new measure will save water, resources, and human lives in California. The tourism industry will grow in coastal and lakeside cities, beaches, and boat docks. The state's income will increase in numerous measures.

Overall, this measure will help the drought end quickly and improve life for the lower and middle class, making California a better place. Vote on Measure W on the state ballot house near you!

Thank you,  
Arnav Dani



## The Best Parts of Summer

Narrative By: Patrick Wang (W1)

The first time I watched someone play soccer, it was so fun. I tried it, and now I know how to play. Also, I can play with my mom and dad because they bought a soccer ball for me. I could play soccer with my friends indoors. I went to someone's birthday party for soccer and more fun activities. At school, I found my friends playing soccer and I said "Hey! Could I play?"

They said "Sure!" It was fun, but now I wanted to play something else like ball tag, sharks and minnows, and What's Up. I also like mobile games, computer games, iPhone games, 3D movie games, P.E. games, inside games, and more. They're exciting and keep me from being bored. My favorite games are computer games. I have Minecraft and Youtube. Minecraft is a game of building and killing the Ender Dragon. It's fun because there are servers like Hypixel.com and more. They do add new minigames. Youtube is a website that has any video, and you type to look for your favorite show and more. These are the best parts of my summer.





# Honey Bees

Research Paper By: Ada Mracek (W2)

BUZZ! Can you guess what I am? If you said that I am a bee, then you are correct. If you guessed that I am a honey bee, then you are just good! Today, I will be talking about honey bees and about their jobs, drones (male), queens, and how they mate. Ok. Let's get started.

Honey bees start as eggs, larvae, (which is also called a brood), and then become a white bee, which means that it is not ready. This all starts in a hexagon shaped pod made out of wax, which is called a cell.

All types of bees have many jobs. Worker bees collect honey. The bees immediately start working after 3 weeks. Another type of job for honey bees is a guard. They stand right next to the queen bee and help create the hive. Honey bees also protect drones, which are unfertilized eggs. Did you know that the queen bee and the drones have jobs too? The queen's job is to lay eggs, and the drone's job is to mate with the queen. After the drone mates, the drone dies.

Some fun facts about bees are that when they find a good flower, they will alert bees by shaking their stingers. Also, when a queen hatches other queens get jealous and sting the other queens that haven't hatched yet.



# All About Elephants

Speech by: Isaac Sun (W1)

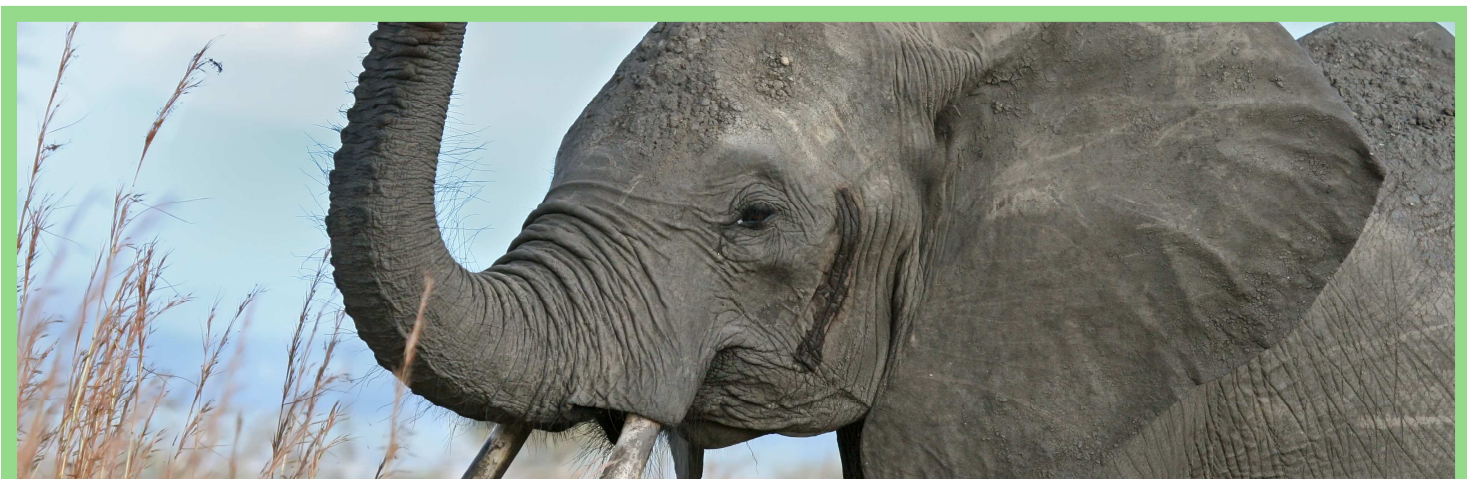
Hello! My name is Isaac and I will tell you facts about elephants. Elephants are the largest land animal on Earth. They have characteristic long noses and trunks, large floppy ears, and wide, thick legs. There are two species of elephants. The Asian elephant and the African elephant live on separate continents and have many unique features. African Elephants are the larger of the two species. They grow 8.2 to 13 feet from shoulder to toe. They weigh 5,000 to 14,000 lbs.

As you know, elephants also have habitats and I will tell you about some of them. African elephants live in sub-Saharan Africa, the rain forests of Central and West Africa and the Sahara Desert in Mali. Asian elephants live in Nepal, India, Southeast Asian scrub forests and rainforests.

Elephants also eat like us humans so let's get started with their diet. Elephants eat grasses, roots, fruit, and bark. They use their tusks to pull the bark from trees and dig roots out of the ground.

I will also tell you other facts about elephants. The African elephant can be identified by its ears. Stretched out, its ears are shaped like the African continent. Asian elephants have smaller ears, which are more rounded on top and flat along the bottom.

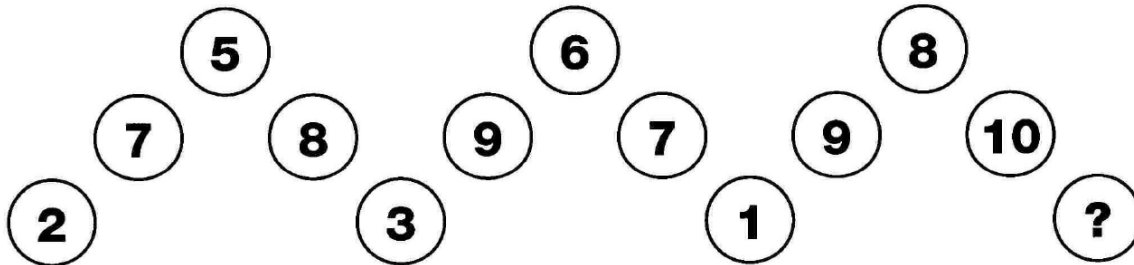
Now I am done with my speech. I hope you learned some stuff about elephants!



# Puzzle of the Month

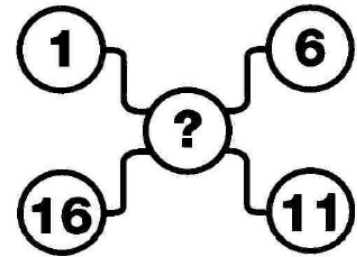
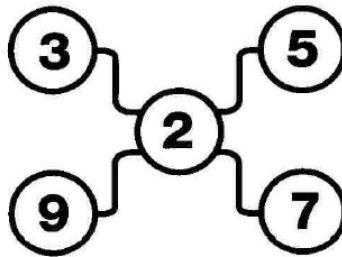
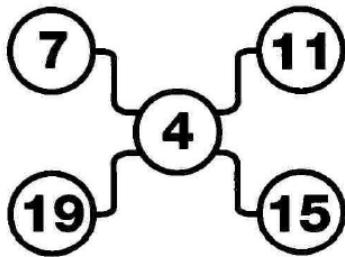
## Puzzle #1

Which number completes the puzzle?



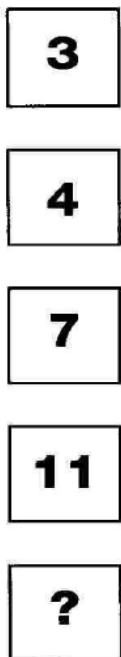
## Puzzle #2

What is missing from the last grid?



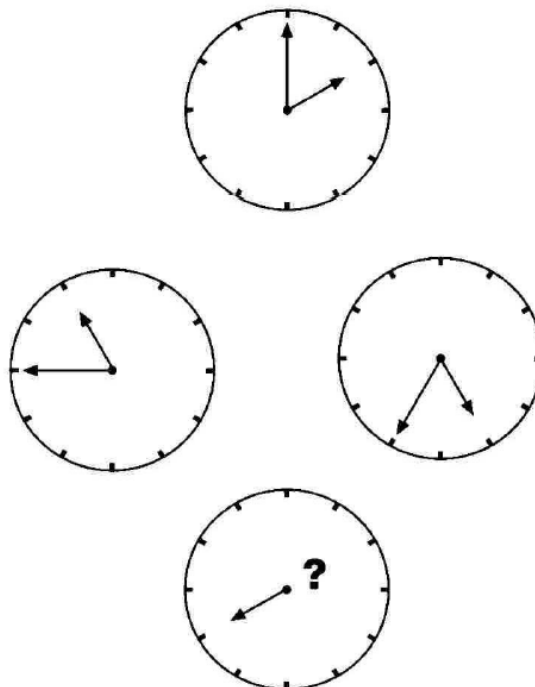
## Puzzle #3

What completes this sequence?



## Puzzle #4

Where does the missing hand go?



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