

MathEdge

SHINES



Creating Sharp Minds for Sharp Solutions

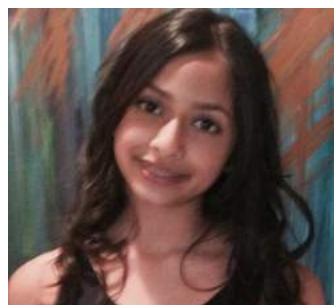
March 2016

NEWS

INSIDE THIS ISSUE:

Former MathEdge student Meera Desai qualifies for AIME + more!

Congratulations to Meera Desai, who scored in the top 1% of the 2016 AMC 12, which put her on the Honor Role and qualified her for the AIME! She also scored in the top 1% on the Canadian Intermediate Math Contest, which is given by the University of Waterloo! Meera went to MathEdge in middle school from 6th to 8th grade, and is currently a 9th grader attending Crystal Springs.



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MathEdge Summer Camps!

AM (9am-12N, M-F) (GK-8): MathEdge+ (Problem Solving and Contest Training)
PM1 (1-4pm, M-F) (GK-8): Writing+ (English Language Arts) | Speech+ (Public Speaking Skills)
PM2 (2-4pm, M-F) (G2-12): AMC 8/10/12 | MathCounts | Math Kangaroo | MathLeague Prep (Practice on prior contests)
CODE+ AM (9-12noon, M-F) | CODE+ PM (1-4pm, M-F) (G4-12): Java | HTML | JavaScript | Python
MathEdge offers 8 weeklong Problem Solving + Contest Training morning (AM) camps and English Writing/Speech/AMC Contest Prep/Math Contest training afternoon (PM) camps. We have added computer programming (Code+) this year.

Signup is by weekly. Materials won't be repeated in other weeks. Each day (both AM and PM camp) includes lecture, fun puzzles, exercises, and contest. Get discounts for early and/or multiple week signups. Space is limited, so register early!

THIS MONTH:

3/15-10% off summer camp discount ends
3/17-Math Kangaroo Contest

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MathEdge May Contest!

MathEdge will be holding a Problem Solving Contest on 5/22/16(Sunday) at our Fremont Site! (43385 Ellsworth Street Fremont, CA 94539)

Note: Space is limited so register early. No refund will be granted. We reserve the right to cancel if not enough entries.

Fee: \$45 (Add \$5/contest if registered less than 2 weeks prior to contest.)

Register online here: <http://www.mathedge.org/maycontest2016.html> OR Mail the registration to us at 43385 Ellsworth Street Fremont, CA 94539

Awards for Each Contest of Each Level (40 awards total)

1st place	A trophy + \$75 credit
2nd place	A trophy + \$50 credit
3rd place	A trophy+ \$25 credit
4th & 5th place	A medal + \$15 credit

Amazing Bottlenose Dolphins

Research Paper By: Shreyas Rana (W2)

Bottlenose dolphins are very interesting mammals. In this research paper I will write about what they eat, how they eat and how they swim. They could see well, but at night they find food using echolocation. Dolphins are streamlined. They can swim 30 miles per hour.

Do you want to know what bottlenose dolphins eat and how they eat? First of all, bottlenose dolphins spend most of their time in coral reefs, where most of their food is. They eat fish, tiny squids, and lobsters. They find their food using echolocation. How it works is that they make a clicking noise and the sound waves travel, hit an object, and bounces back. The dolphin figures out if the sound waves hit a fish, or a rock. That's how they find food.

Bottlenose dolphins swim like magic! Dolphins have a dorsal fin to stay steady. They use their tail to move forward, and use their flippers as rudders. They swim as fast as 30 miles per hour! Now you know how they swim!

You have learned a lot about dolphins, especially about bottlenose dolphins. You learned about its food, and how it swims. Dolphins are remarkable.



My Own Laptop

Narrative By: Adrienne (W3)

Middle school is beginning soon. Otherwise known as homework, homework,, and more homework. I need to be able to be in contact with my friends and classmates. I also need to organize mountains of paper that would be piled up in my room. Also, I will need to be more responsible. I think it's time I get my own laptop.

My first reason is to get organized. During the school year, especially with many classes, a laptop will make it much easier to type and store all my assignments. A laptop will also make it easy for me to do research for my projects. Also, with a laptop, I won't need another piece of paper for a calendar. My laptop can make one for me.

My second reason is to keep in touch with my friends and classmates after school. I can play online with them, too. I can also ask them what I missed if I'm sick, and they can send me a copy of an assignment sheet if I lost it. A laptop is great for communication with others.

On the other hand, many people think that children will go to websites like Facebook, and see inappropriate things. They might also get ricked into downloading a virus. I will make sure it doesn't happen by making rules with y parents. I will be responsible for it, and resist the urge to click on icons such as "FREE iPad!" While having fun, I will be careful and try to stay out of trouble.

With a laptop, I'll be more organized, have a way to contact friends, and be more responsible. Middle school is getting closer and closer. I really don't want my room to get any dirtier than it is. A laptop would make my life a whole lot easier.



Stalin's Contributions to the end of WWII

Research Paper By: Kenneth Su (W3)



"I believe in one thing only, the power of human will." These words were uttered by the former USSR (Soviet Union) dictator, Stalin. Although Stalin's image has been marred by the Cold War, Stalin made significant contributions to Germany's defeat in World War II. Although Stalin's initial reaction to World War II was questionable, his leadership helped the USSR significantly.

Before joining WWII, the USSR tried to make an anti-Nazi alliance with western powers, an alliance with Nazi Germany. Stalin eagerly sent raw materials to Germany and even rejected German communists seeking sanctuary in the USSR. As Hitler made dramatic progress into France, Stalin became nervous of an invasion. German forces gathering at Polish borders confirmed his suspicions, but Stalin stubbornly refused to prepare for Operation Barbossa (Hitler's plan to invade the USSR).

In June of 1941, German troops stormed passed the USSR's borders, Stalin was originally blindsided traumatized by the assault. He went into a state of nervous breakdown; not responding to the attack for 3 weeks. It was not until July that Stalin went on national radio calling for unity. Within the three weeks of national chaos, Germany made stunning progress into the USSR, holding Moscow itself.

Under different circumstances, the USSR would have fared better, but Stalin exiled four of the five senior commanders of the Red Army in fear of "internal enemies." The German advance threatened Moscow itself. Stalin commanded the Red Army to defend at the city of Tsaritsyn. There, the German Army was trapped in the rubble of the city and was annihilated. Stalin then valiantly pushed the German Army out of Russia. There, he attacked the German mainland and launched the final assault against Germany in the battle of Berlin in the spring of 1945.

While defending against Germany, Stalin made many improvements in the USSR's diplomacy. During World War II, Stalin cleverly pushed for military and economic assistance; insisting on the recognition of the USSR's power and influence over Europe. The "Big 2" (Franklin D Roosevelt and Winston Churchill) had many diplomatic talks with Stalin. Even Churchill was appreciative to the USSR's sacrifices during the war. Stalin's imposing diplomatic manner forced the acceptance of Soviet influence in Europe. Towards the end of WWII, when Germany's loss was imminent, Stalin and other allied countries jostled for post-war positions. After being excluded from a few international conferences, Stalin became suspicious. When the two nuclear bombs were dropped on Hiroshima and Nagasaki, Stalin was furious about not being notified of such a weapon. Overall, Stalin was clever in diplomatic talks.

Stalin was a key leader of the USSR, which played a substantial part in the German defeat. At first, he was unable to leave his nation, but his later action in leading the Red Army proved that the USSR could defend against German forces. Stalin was a great leader, who united his country in times of crisis.

The Knight and the Dragon Narrative by: Jason Cheng (W1)

Once upon a time, there was a castle in England. There lived a princess and a knight. One day, the princess was riding on a horse down the street when she saw a helicopter. "What is a helicopter doing in London?" she thought. Then, the helicopter landed next to the castle. She saw something talking to the knight. Then, she saw the knight run back into the castle. She saw a slimy and green thing chasing him into the castle. "On ho, a dragon!" she thought. "Run!" she shouted.

The king of the castle, a dragon named Hot Fire III burst out like mad and ran at top speed breathing blue fire. Then, the dragon caught sight of the princess, and she fainted. When she opened her eyes, she saw herself in a box on the helicopter. "We'll eat her for dinner, guys." she heard Hot Fire III say.

Back in the castle, the knight wondered where the princess was. Then he knew it. She was in the dragon's helicopter. A few minutes later, his horse was galloping away at full speed. Two hours later, the knight was in the castle jail, separated from the princess. Then, he thought of an idea to escape. He used his sword and started cutting the lock until he could open the door. He looked both ways and headed out the door. He unlocked all the jail doors, and saw the princess.

"Who are you?" asked the princess.

"I am a knight, do not be afraid. I will bring you back." said the knight.

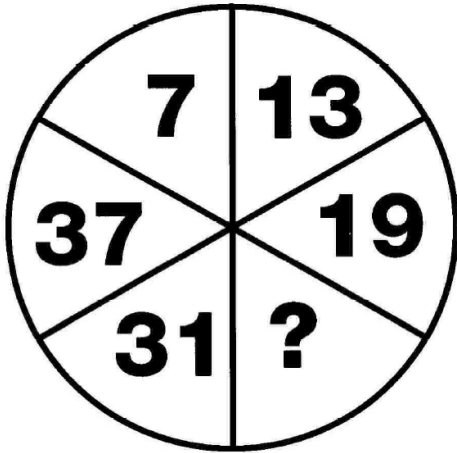
"Thank you!" the princess said. When they got back, they lived happily ever after.



Puzzle of the Month

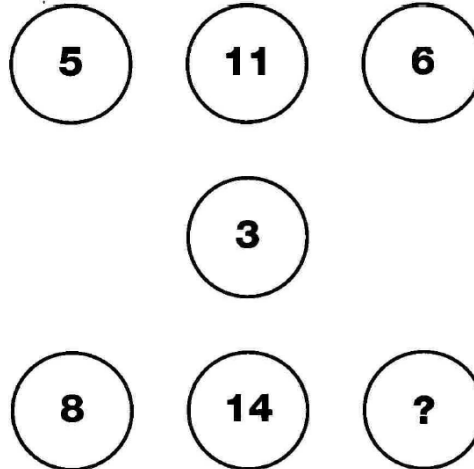
Puzzle #1

Which number is missing?



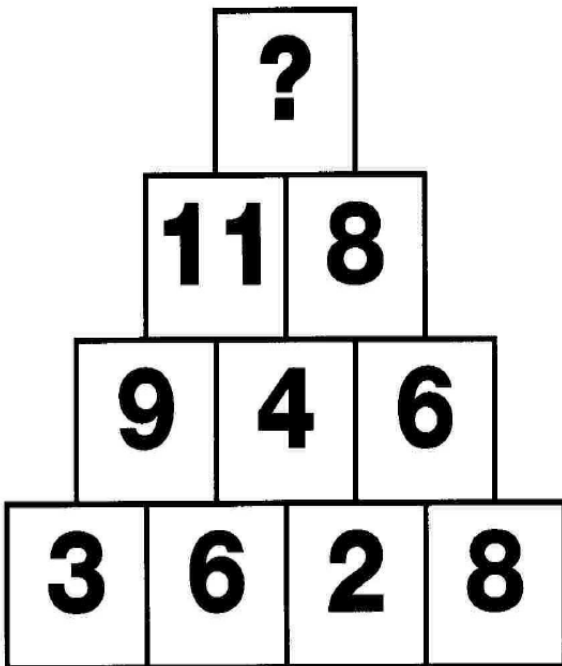
Puzzle #2

What number completes the puzzle?



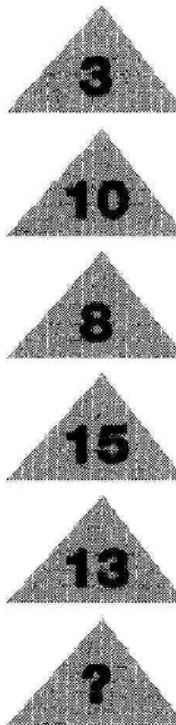
Puzzle #3

What number completes this pyramid?



Puzzle #4

Where number is missing?



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