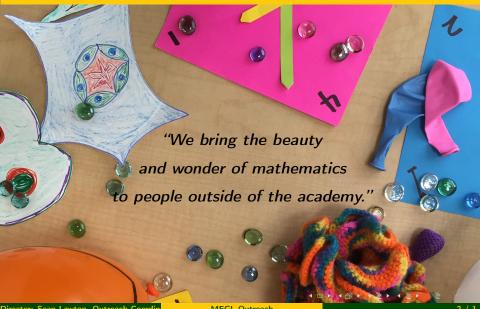
MEGL Outreach

Director: Sean Lawton

Outreach Coordinator: Jack Love

George Mason University

What is MEGL Outreach?



Your Teachers Are Lying to You!

Your Teachers Are Lying to You!

• Two plus two does *not* equal four!

Your Teachers Are Lying to You!

- Two plus two does not equal four!
- Some squares have *negative* area!

Your Teachers Are Lying to You!

- Two plus two does not equal four!
- Some squares have *negative* area!
- Triangle angle measures do *not* sum to 180!

Your Teachers Are Lying to You!

- Two plus two does not equal four!
- Some squares have negative area!
- Triangle angle measures do *not* sum to 180!

Truth depends on context.

Math is subversive.

You Can Count on Monsters!

You Can Count on Monsters!

• What's a prime number?

You Can Count on Monsters!

What's a prime number?
 A number that's not a rectangle.

You Can Count on Monsters!

What's a prime number?
 A number that's not a rectangle.



You Can Count on Monsters!

What's a prime number?
 A number that's not a rectangle.





You Can Count on Monsters!

• How do I find the prime factorization of a composite number?

You Can Count on Monsters!

You Can Count on Monsters!



You Can Count on Monsters!





You Can Count on Monsters!



You Can Count on Monsters!





You Can Count on Monsters!



You Can Count on Monsters!

• How do I represent said factorization?

You Can Count on Monsters!

How do I represent said factorization?
 Create a monster!

You Can Count on Monsters!

How do I represent said factorization?
 Create a monster!





You Can Count on Monsters!

• How do I recover a composite number from its factorization?

You Can Count on Monsters!

You Can Count on Monsters!



You Can Count on Monsters!





You Can Count on Monsters!



You Can Count on Monsters!





You Can Count on Monsters!



 August 4. Rec-PAC at Bonnie Brae Elementary. Monsters. 48 participants.

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- August 29. UIUC.
 Liars. 20 participants.

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- October 8. Fairfax Regional Library.
 Monsters. 15 participants.

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- October 17. STEM Day at NOVA Loudon. Liars. 21 participants.

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- November 7. Centreville Regional Library.
 Monsters. Some number of participants (in Z_{>0}).

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 Monsters. 15 participants.
- October 17. STEM Day at NOVA Loudon. Liars. 21 participants.
- November 7. Centreville Regional Library.
 Monsters. Some number of participants (in Z_{>0}).
- November 19. Fairfax Regional Library. Hyperbolic Crochet. 10 participants.



Director: Sean Lawton Outreach Coordin

MEGL Outreach





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Director: Sean Lawton Outreach Coordinate

 January 11. Thomas Jefferson Library. Monsters.

- January 11. Thomas Jefferson Library. Monsters.
- January 19. Patrick Henry Library. Monsters.

- January 11. Thomas Jefferson Library. Monsters.
- January 19. Patrick Henry Library. Monsters.
- March 10. Oakton Library. Monsters.

- January 11. Thomas Jefferson Library. Monsters.
- January 19. Patrick Henry Library.
 Monsters.
- March 10. Oakton Library. Monsters.
- March 22. Centreville Regional Library. Big Numbers.

- January 11. Thomas Jefferson Library. Monsters.
- January 19. Patrick Henry Library.
 Monsters.
- March 10. Oakton Library. Monsters.
- March 22. Centreville Regional Library.
 Big Numbers.
 Wait, what's that?

Really BIG Numbers

