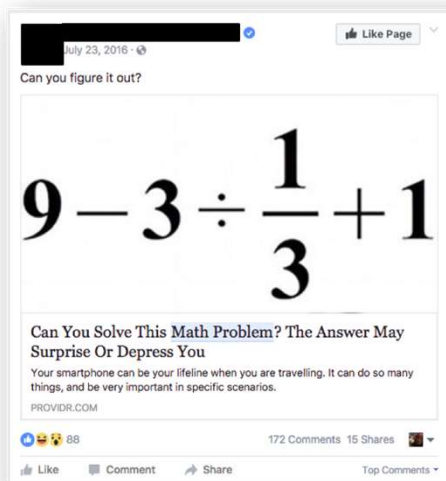


Can You Solve This Math Problem? The Answer May Surprise or Depress You



#PD2C: Connect and Capitalize on Social Media as a Professional Learning Tool

Michael Greenlee, Professional Learning Facilitator, Elementary Math
Denise Thornton, Professional Learning Facilitator, Secondary Math

April 24, 2018, NCSM Annual Conference



Engage With the Dana Center



facebook.com/utdanacenter

facebook.com/mathcuts



[@UTDanaCenter](https://twitter.com/UTDanaCenter)

Conference Hashtag: #gotmath

About the Dana Center

— Equity — Access — Excellence —

2018

Dana Center by the Numbers



By the close of 2017, the Dana Center had contributed to the **implementation of mathematics pathways** in higher education systems, institutions, and campuses in **29 states**.

Dana Center by the Numbers

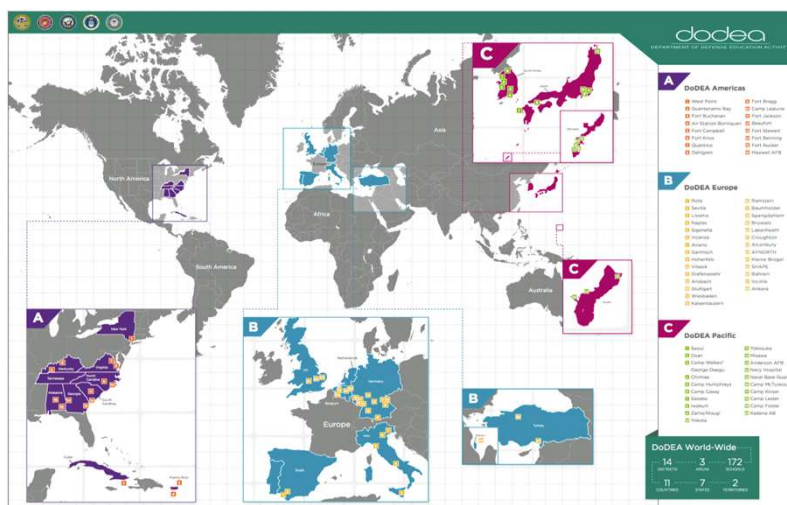


We engaged with **118 districts in 23 states** to provide middle and high school math courses of the **highest quality**, as recognized by rigorous state and national reviews, including EdReports.org.



We supported **60,500 K-12 students** attending school on U.S. military bases through our work with DoDEA, the **U.S. Department of Defense Education Activity.**

The Challenges of Professional Learning from a Distance



Why Social Media?

July 23, 2016 · Like Page

Can you figure it out?

$$9 - 3 \div \frac{1}{3} + 1$$

Can You Solve This Math Problem? The Answer May Surprise Or Depress You

Your smartphone can be your lifeline when you are traveling. It can do so many things, and be very important in specific scenarios.

PROVIDR.COM

88 reactions · 172 Comments · 15 Shares

Like · Comment · Share · Top Comments

Comments:

- you divide first change the 3 to a fraction 3/1 and the division sign to a multiplication sign
 $\frac{3}{1} \times \frac{3}{1} = \frac{9}{1} = 9$
 $9 - 9 + 1 = 1$... See More
 Like · Reply · 28 · July 23, 2016 at 2:43pm
- h Okay, basic math. $9 - 3 = 6$. Take 6 fractional, which is 6 over 1. 6 and 3 have common denominators, so 6 becomes 2 and 3 becomes 1. So you have 2 divided by 1, which is 2. Any whole number divided by 1 is that number, except zero. So you end up with $2 + 1 = 3$. 3 is it.
 Like · Reply · 5 · July 23, 2016 at 2:37pm
- Following the PEMDAS rule..
 $= 9 - (3 / \frac{1}{3}) + 1$
 $= 9 - (9) + 1$... I got the reciprocal of $\frac{1}{3}$ which is $\frac{3}{1}$ so $3 \times 3 = 9$... See More
 Like · Reply · 12 · July 23, 2016 at 2:45pm
- Doesn't anybody remember PEMDAS. The answer is 1.
 No maybe it's - 1
 Like · Reply · 4 · July 23, 2016 at 2:08pm · Edited
- 7
 Like · Reply · 10 · July 23, 2016 at 2:03pm
- you need to put everything in order:
 $9 - 3(3/1) + 1$
 $= 9 - 3(3/1)$... See More
 Like · Reply · 2 · July 24, 2016 at 12:00am
- 1. Division comes first. Division by a fraction means you inverse the fraction and multiply, so $3 \times 3 = 9$. $9 - 9 + 1 = 1$
 Like · Reply · 2 · July 23, 2016 at 5:12pm
- PEMDAS will help you out!!
 Like · Reply · 1 · July 23, 2016 at 10:04pm
- 3/1 / 1/3 will cross multiply $\frac{3}{1} \times \frac{1}{3} = 0 + 1 = 9 - 1 = 8$ mds
 ahaa just guessing
 Like · Reply · July 23, 2016 at 3:40pm
- I'm sad that so many people have trouble with the order of operations. That was 6th grade stuff.

Why Social Media?

Applications of social media as a professional learning tool

- Engages learners with constant connectivity.
- Fosters collaborative learning.
- Makes learning context aware and authentic.

Supporting Ongoing Teacher Learning Through Social Media

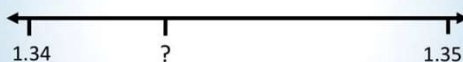
Provide social learning opportunities that are...

- ✓ Quick
- ✓ Frequent
- ✓ Visually engaging
- ✓ Easily accessible
- ✓ Immediately applicable

Supporting Ongoing Teacher Learning Through Social Media

@MathCuts

What could be the missing number on the number line?



Using the proximity of the question mark, would the answer be closer to 1.34 or 1.35? How many numbers are between 1.34 and 1.35? Does the answer have to be a decimal?

Like · Reply · Message · 9w

2

What number couldn't this be? What place value do we need to look at? What would this look like in a picture?

Like · Reply · Message · 9w

4

1.344

Like · Reply · Message · 8w

1.3425

Like · Reply · Message · 7w

Write a comment...

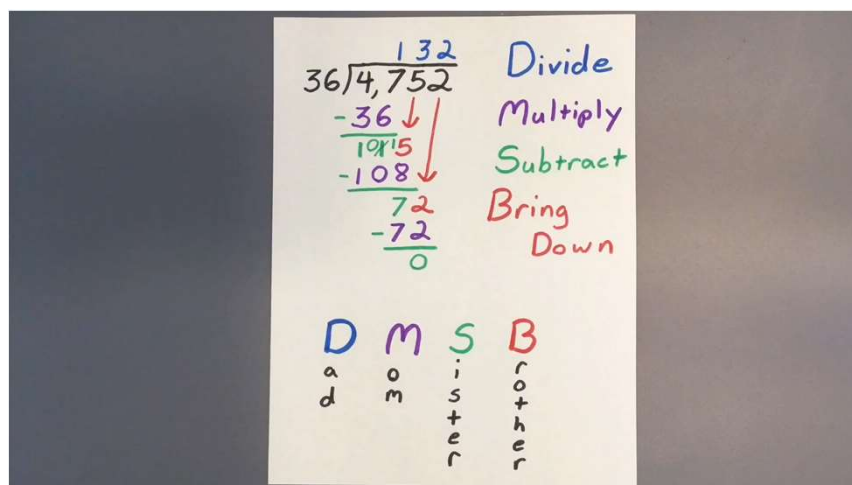
Supporting Ongoing Teacher Learning Through Social Media

Discuss at your group...

- What important math understandings are revealed?
- What questions or discussions do you anticipate teachers having?

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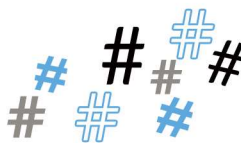
Discuss at your group...

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Supporting Ongoing Teacher Learning Through Social Media

#Hashtag

- Connect related topics, conversations, and images.



Twitter Chat

#PD2C

Share images and examples of math in the real world.

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Visit the Dana Center at utdanacenter.org.

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