

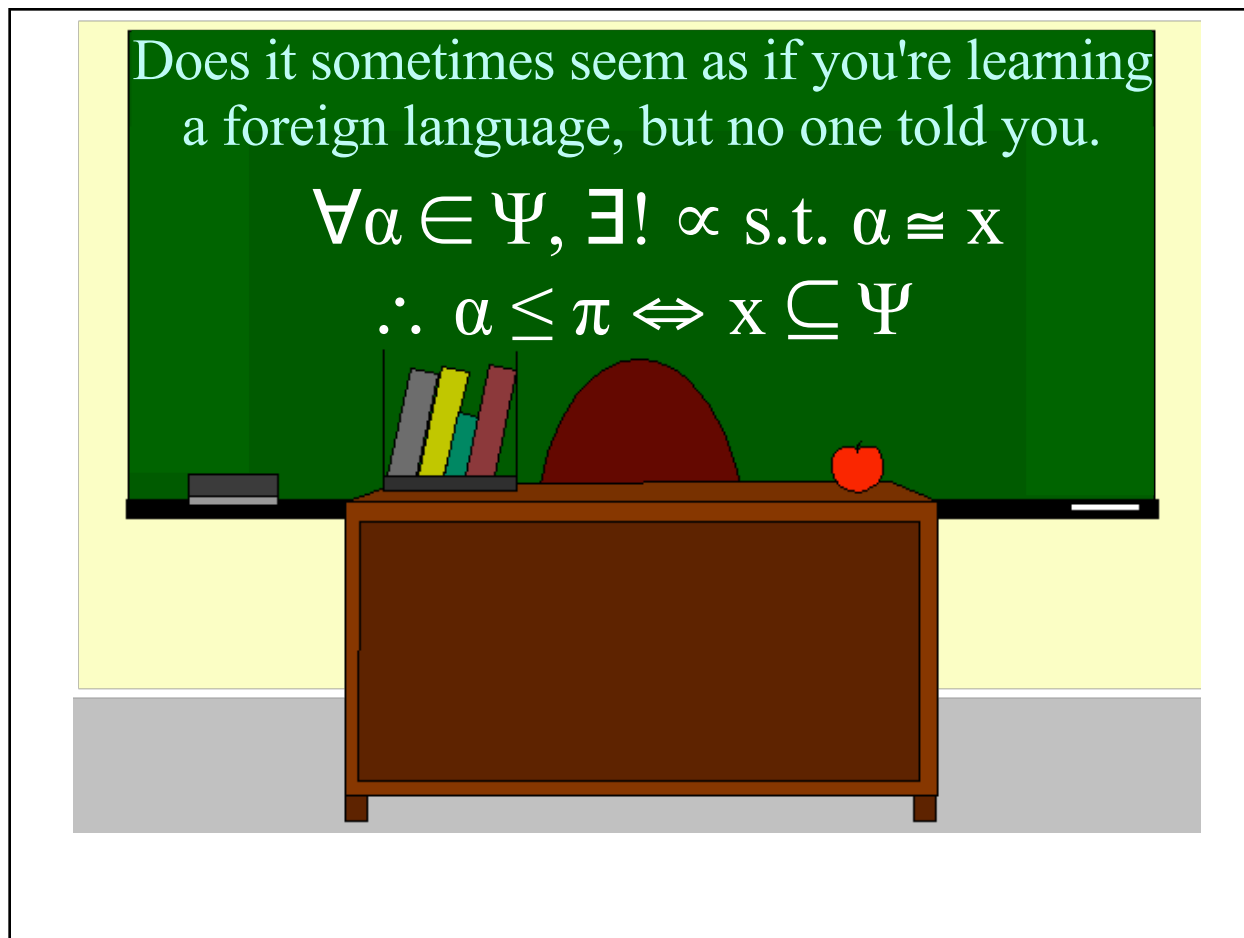
Does math confuse you?



Does it sometimes seem as if you're learning
a foreign language, but no one told you.

$$\forall \alpha \in \Psi, \exists! \alpha \text{ s.t. } \alpha \cong x$$

$$\therefore \alpha \leq \pi \Leftrightarrow x \subseteq \Psi$$



Do you sometimes wish that you could

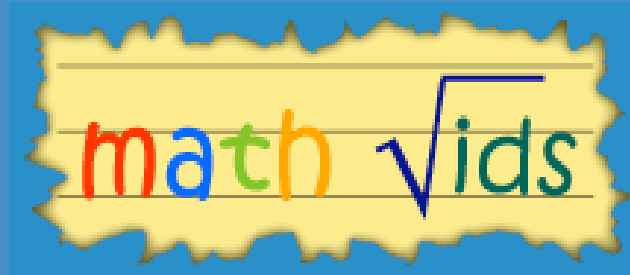
have someone else

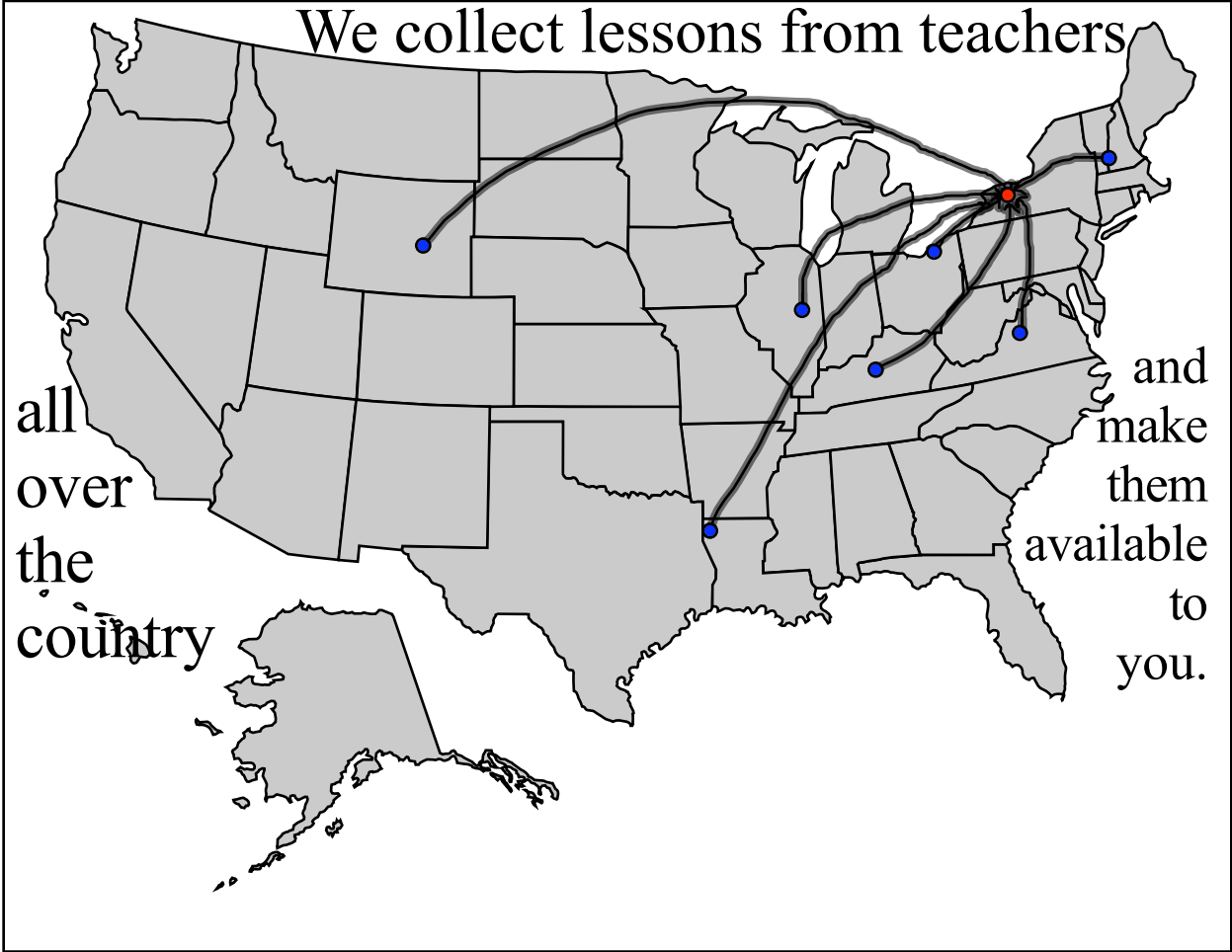
explain the

lesson?



This is where we come in!





You pick the video that makes sense to you!

$$x + 2 = 5$$
$$\quad -2 \quad -2$$
$$x = 3$$

☆☆☆☆☆

$$x + \begin{matrix} \text{X} \\ \text{X} \end{matrix} = \begin{matrix} \text{X} & \text{X} \\ \text{X} & \text{X} \end{matrix}$$
$$x = \begin{matrix} \text{O} & \text{O} & \text{O} \end{matrix}$$

☆☆☆☆☆

☆☆☆☆☆

☆☆☆☆☆

$$? + = \begin{matrix} \text{C} & \text{C} \\ \text{C} & \text{C} \end{matrix}$$
$$\text{C}$$

☆☆☆☆☆

NOT Just another YouTube

Broadcast Yourself™

Every MathVid is **viewed**, **approved**, **rated**, and **reviewed** by a MathVids certified teacher / staff member.

Worksheets

Name: _____

Properties of Exponents (Sections 9.1 and 9.2)

Simplify each expression and provide the generalized rule for each group.

1. $a^2 \cdot a^3$ 2. $a^2 \cdot a$ 3. $a^2 \cdot a \cdot a^2$

Rule: $a^m \cdot a^n =$ _____

4. $(a^2)^3$ 5. $(a^2)^2$ 6. $(a^2)^4$

Rule: $(a^m)^n =$ _____

7. $(a \cdot b)^2$ 8. $(a \cdot b)^3$ 9. $(a \cdot b)^4$

Rule: $(a \cdot b)^n =$ _____

10. $(a^2 \cdot b^3)^2$ 11. $(a \cdot b^2)^3$ 12. $(a^2 \cdot b^3)^4$

Rule: $(a^m \cdot b^n)^p =$ _____

13. $(a^2)^3$ 14. $(a^3)^2$ 15. $(a^4)^2$

Rule: $(a^m)^n =$ _____

16. $\frac{a^5}{a^2}$ 17. $\frac{a^6}{a^3}$ 18. $\frac{a^7}{a^4}$

Rule: $\frac{a^m}{a^n} =$ _____

Tests

Classify each quantity as DISCRETE or CONTINUOUS (circle your answer)

19. Amount of sugar being poured into a cup: DISCRETE or CONTINUOUS

20. The number of football games U of M loses: DISCRETE or CONTINUOUS

Write each number in Scientific Notation

17. 17,300,000 18. 0.0000223

19. 0.005 20. 225.77

21. $(3.50 \times 10^6)(7.65 \times 10^4)$

22. Sound travels 340m per second. How far can sound travel in a minute and a half?

Write each number in Decimal Notation

23. 1.73×10^2 24. 4×10^4

25. 4.43348×10^6 26. 6.15×10^4

For numbers 27–29, use the triangle at the right.

27. What is PK?

28. What is KL?

29. What is the perimeter of triangle JKL?



For numbers 30–33, use the figure at the right.

30. Name 2 right angles

31. Name 2 obtuse angles

32. Name a pair of complementary angles

33. Name a pair of supplementary angles

Slides

1. Does math confuse you?

2. $3 \times 2 = 6$ and $2 \times 3 = 6$

3. You sometimes wish that you could have extra time after school for "Math Vids"?

4. Is there we come life?

5. Map of the United States

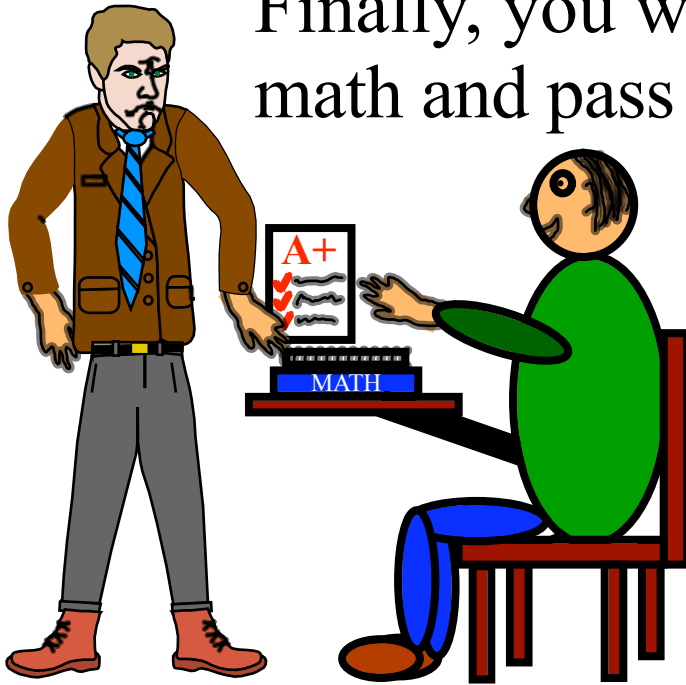
6. Math Vids logo and icons

Websites

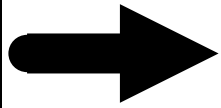
nctm.org/illuminations

shodor.org/interactivate

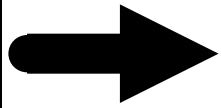
Finally, you will understand math and pass your tests!



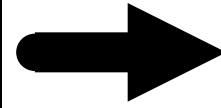
MathVids can also help you if...



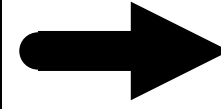
You want to go ahead of your class and learn about advanced topics



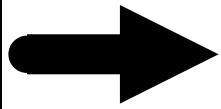
You don't understand your upper-level college math classes



You are home-schooled



You are a teacher / administrator



You DO understand math, and you want to teach other people (AND EARN MONEY!\$!)