

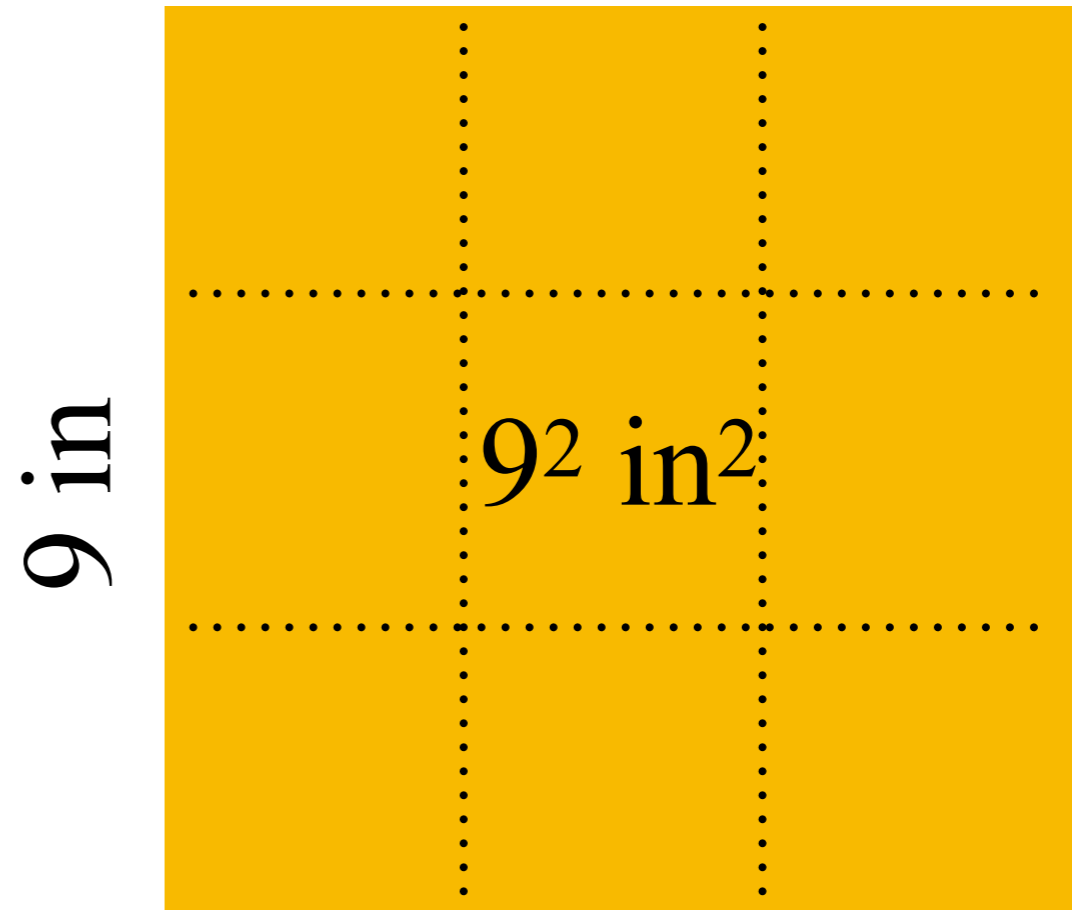
FUN with ALGEBRA

Some semi-practical applications

Square Pizzas:

How to divide up a 9 inch square pizza
equally among 9 people?

Make 2 cuts x apart
both vertically and
horizontally.



$$9x^2 = 9^2$$

$$x^2 = 9$$

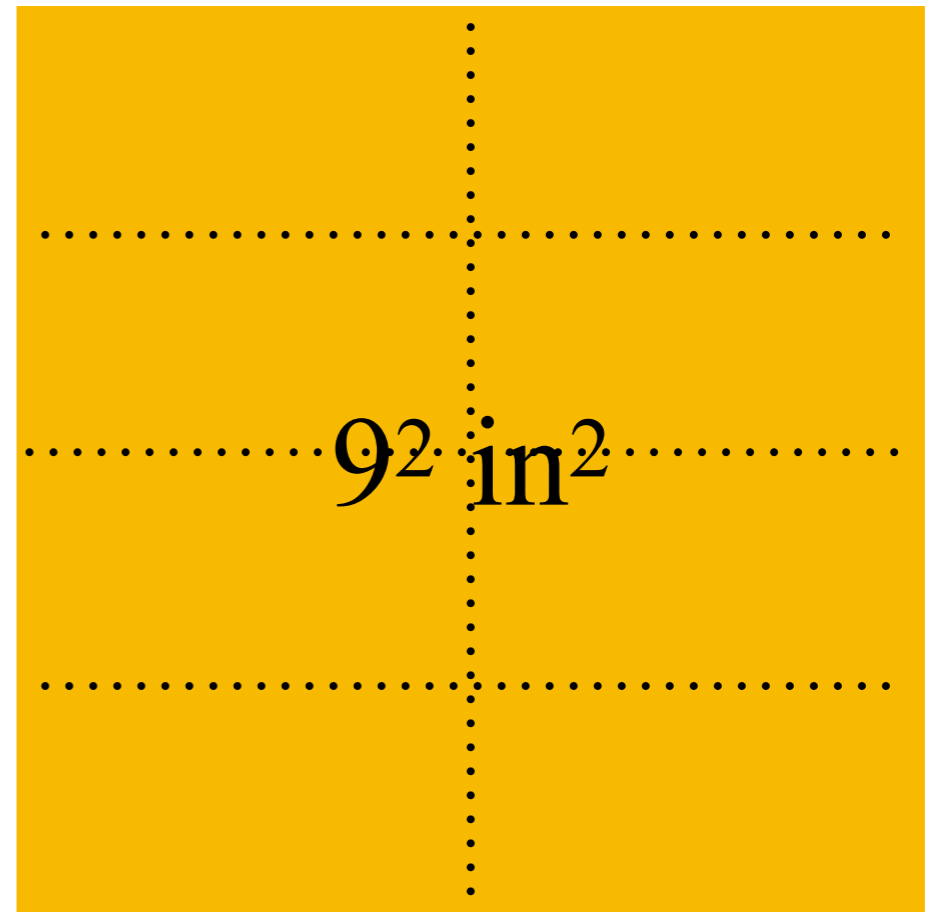
$$x = 3$$

Square Pizzas:

How to divide up a 9 inch square pizza
equally among 8 people?

Guess!

9 in



Sometimes algebra is unnecessary!

Round Pizzas:

How to divide up a 9 inch *diameter* pizza equally among 9 people?

First cut...

Second cut at θ to first cut...

...and so on...

$$9\theta = 360^\circ$$

$$\theta = 40^\circ$$

