

Math 1 A/B

# How to Learn Math

## Lesson 4a: Number Flexibility, Mathematical Reasoning, and Connections

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

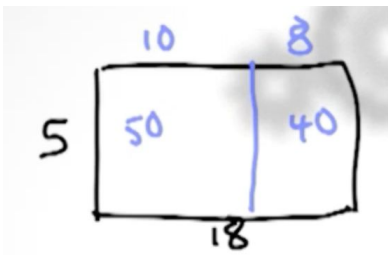
### “Number Flexibility”

What is  $18 \times 5$ ?

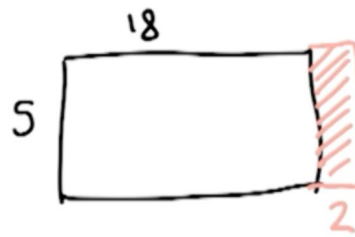
### “ $18 \times 5$ ”

Which of the visuals shows you the method of working out  $9 \times 10$  instead of  $18 \times 5$ ?

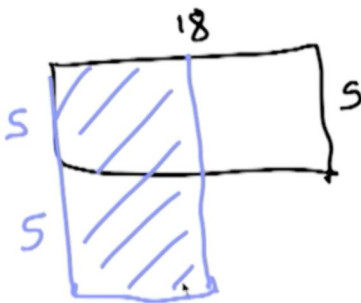
Option A



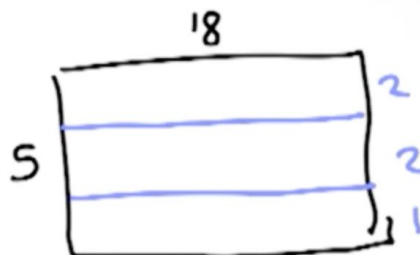
Option C



Option B



Option D



### **“12 x 15”**

Calculate  $12 \times 15$  by changing the numbers into friendlier numbers as we saw in the videos. Show how you work it out – type out your methods using the number keys on your computer here:

### **“Talking about Math”**

Why do you think that the students who worked on math together did so well in their math class afterwards?

### **“Reasoning”**

Why is it useful to learn to reason? Choose as many as you like.

- Reasoning is the essence of what mathematics is
- Reasoning is useful for working in most jobs
- Reasoning allows people to connect ideas and make mathematical breakthroughs