# SQUARES ON A GRID LEARNING GOAL

- 1. I can correct any mistakes I have been making when working with numbers in scientific notation.
- 2. I can reason about squares and their side lengths using a unit grid.

## WHAT I NEED IN MATH CLASS

math class.

**Directions:** Check the boxes that match your preferences about your upcoming work in math class.

# I would like ...

🗆 to learn new math
to practice math skills using an online learning platform (Check all
that apply)
ALEKS
wootmath!
Other:
■ to be challenged.
■ to do something creative (Select all that apply)
□ like a project
a presentation
making and sharing videos about math
Other:
■ to interact more with my classmates or teacher.
List any classmates below who you would like to collaborate with in

### COMPLETE IF YOU HAVE NO WORK TO CORRECT

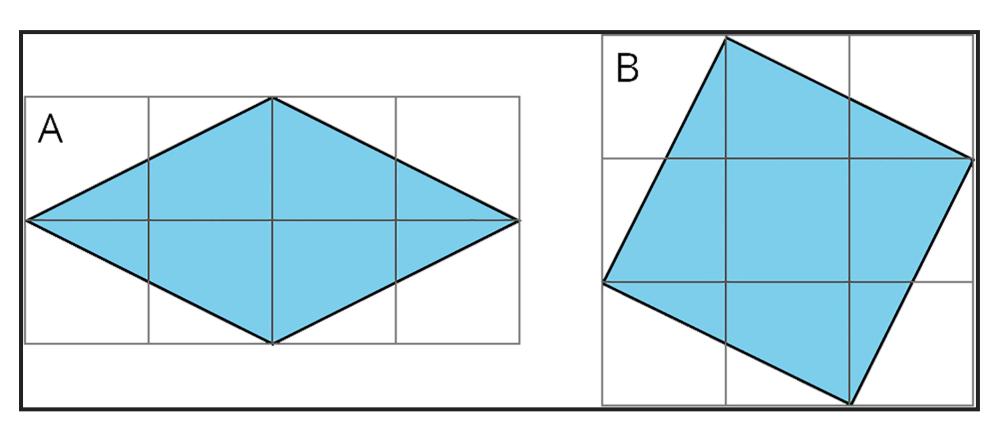
**Directions:** *If you do not have any work to correct*, answer the following question (or you may complete 2 topics on ALEKS). Make sure that you show your work and/or explain your thinking.

Which is larger: the number of meters across the Milky Way, or the number of cells in all humans? Explain or show your reasoning.

#### Some useful information:

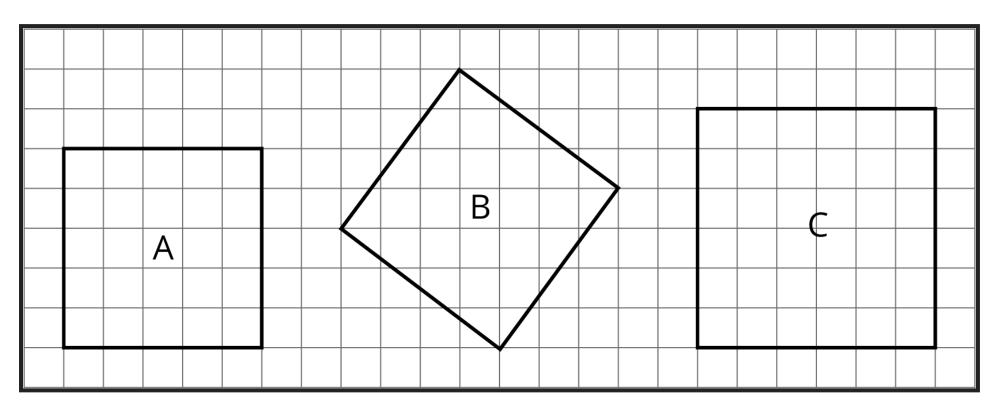
- The Milky Way is about 100,000 light years across.
- There are about 37 trillion cells in a human body.
- One light year is about meters.
- The world population is about 7 billion.

TASK 1



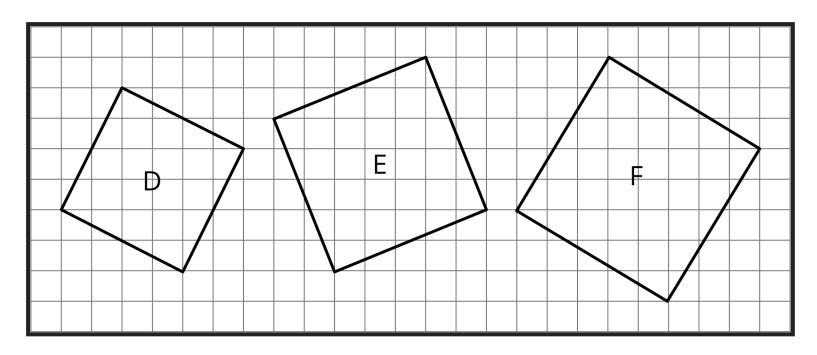
Which shaded region is larger? Explain your reasoning.

# TASK 2



- 1. What is the side length of square A? What is its area?
- 3. What is the area of square B? What is its side length?
- 2. What is the side length of square C? What is its area?

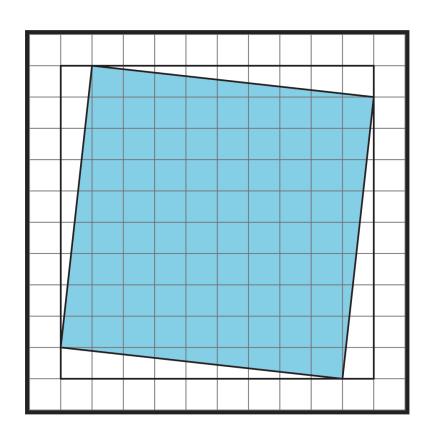
TASK 3

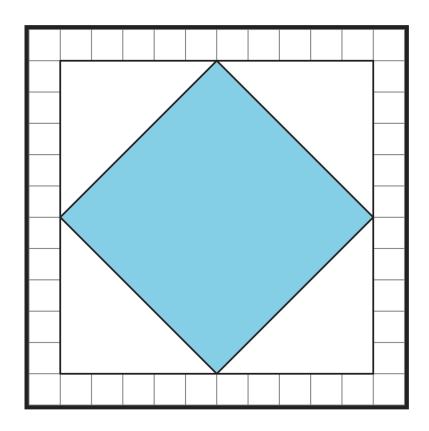


1. Find the areas of squares D, E, and F. Which of these squares must have a side length that is greater than 5 but less than 6? Explain how you know.

# TASK 4

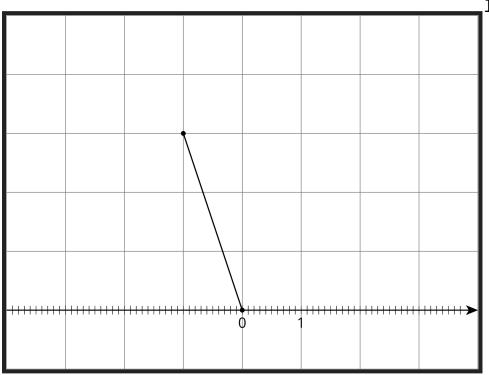
Find the area of each shaded region (in square units). Show your thinking.





1. 2.

# TASK 5



1. Estimate the length of the line segment to the nearest tenth of a unit (each grid square is 1 square unit).