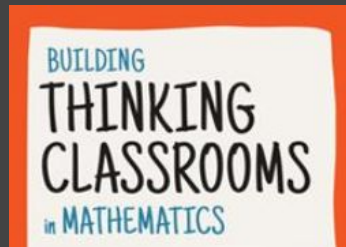


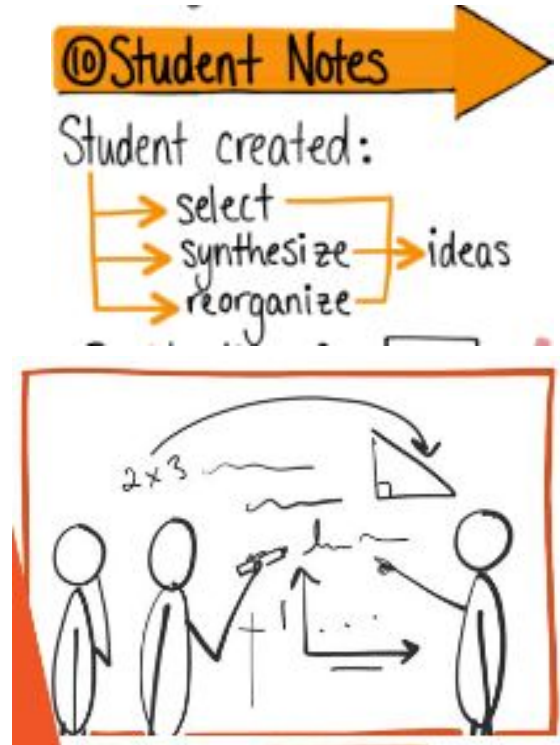
# Meaningful Notes - functions

Adapted from the book *Building Thinking Classrooms in Mathematics* and the work of Peter Liljedahl



# Meaningful Notes

- Is the act of making notes (not taking notes)
- Helps make your learning more permanent
- Organizes your thoughts
- Is a record of your learning
- Transfers collective learning to individual learning and formal understanding



Source: <https://buildingthinkingclassrooms.com/>

# How to do it:

- You will work at the white boards in your groups
- Your teacher will give you examples for **Quadrant A** and **Quadrant B**
- You can each have a marker (not limited to one)

The whiteboard is divided into four quadrants labeled A, B, C, and D. Quadrant A contains a diagram of a square with side length  $\square$  in and the formulas for its area and perimeter. Quadrant B contains a diagram of an L-shaped polygon with dimensions 3ft, 6ft, 7ft, and 4ft, and the instruction to find its area and perimeter. Quadrant C is empty. Quadrant D contains the instruction to find the area and perimeter of a shape.

**Quadrant A:**

$\square$  in

$$A = \square \text{ in} \times \square \text{ in}$$
$$= \square \text{ in}^2$$
$$P = \square \text{ in} + \square \text{ in} + \square \text{ in} + \square \text{ in}$$
$$= 2 \times \square \text{ in} + 2 \times \square \text{ in}$$
$$= \square \text{ in}$$

**Quadrant B:**

EXAMPLE 1: FIND THE AREA AND PERIMETER.

3ft

6ft

7ft

4ft

**Quadrant C:**

EXAMPLE 2: FIND THE AREA AND PERIMETER.

**Quadrant D:**

THINGS TO REMEMBER:

Source: Livestream #3 with Peter Liljedahl (facebook)

# How to do it:

- Divide your board into 4 parts
- **Quadrant A:** complete the example
- **Quadrant B:** work the example
- **Quadrant C:** work your own example
- **Quadrant D:** things to remember, or notes to your future forgetful self

EXAMPLE 1: FIND THE AREA AND PERIMETER.

3ft  
6ft  
4ft  
7ft

A B

THINGS TO REMEMBER:

EXAMPLE 2: FIND THE AREA AND PERIMETER.

D C

Source: Livestream #3 with Peter Liljedahl (facebook)

# Quadrant A:

## Complete this example

- Using the code, demonstrate how you would define a function and call the function

```
display.show(pics.HEART)
sleep(delay)
display.show(pics.HEART_SMALL)
sleep(delay)
```

Function Definition:

Function Call:

# Quadrant B:

Create at least one function from the code example:

```
from codex import *
from random import randrange

red = randrange(256)
green = randrange(256)
blue = randrange(256)

color = (red, blue, green)

pixels.set(0, color)
pixels.set(1, color)
pixels.set(2, color)
pixels.set(3, color)
```

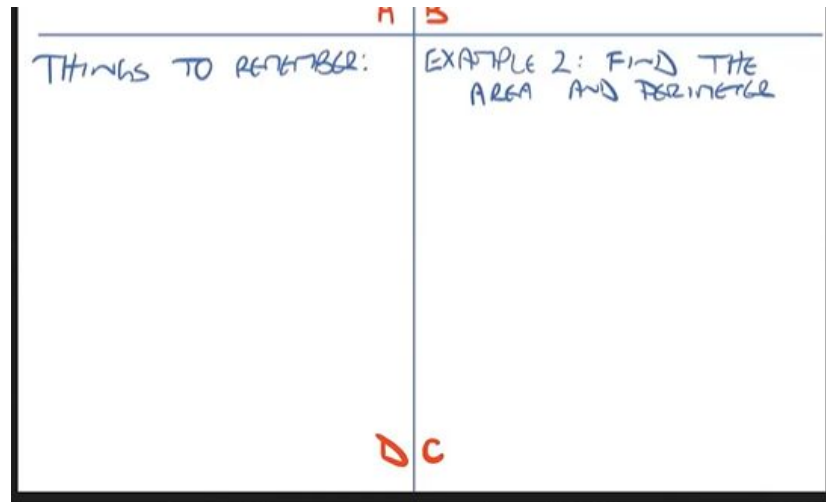
# Quadrant C and D:

## Quadrant D:

things to remember, or notes to your future forgetful self

## Quadrant C:

work your own example (flowchart only)



Source: Livestream #3 with Peter Liljedahl (facebook)