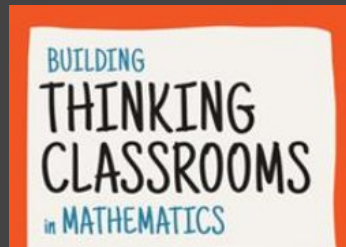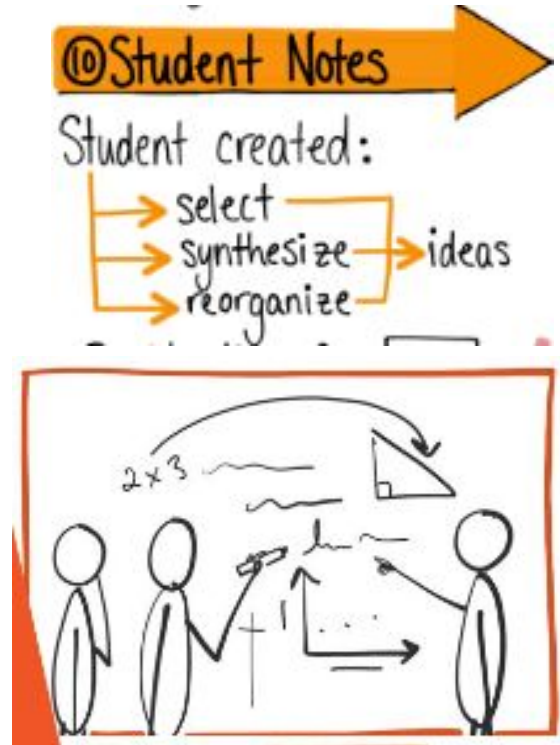# Meaningful Notes

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

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)

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

Quadrant A:

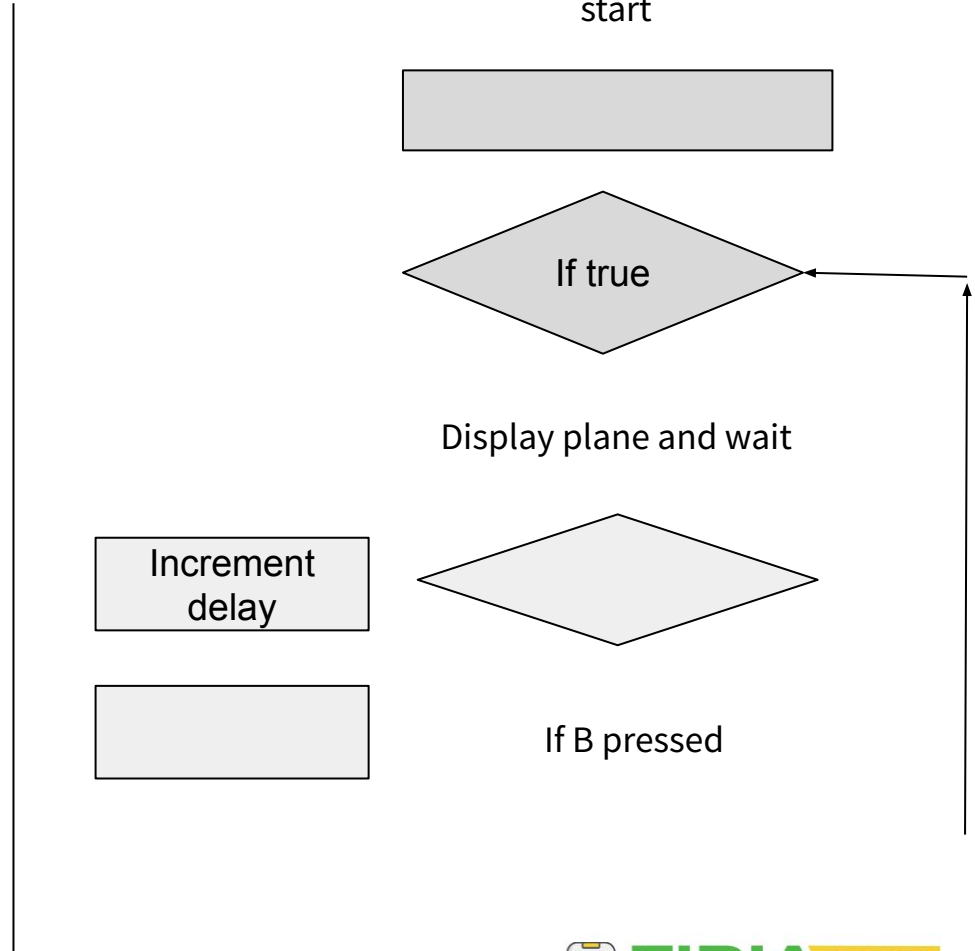## Complete this example

- Fill in the missing instructions
- Draw the correct flowchart shape and flow lines

```
delay = 1

while True:
    display.show(pics.PLANE)
    sleep(delay)

    if buttons.was_pressed(BTN_A):
        delay = delay + 0.2

    if buttons.was_pressed(BTN_B):
        delay = delay - 0.2
```
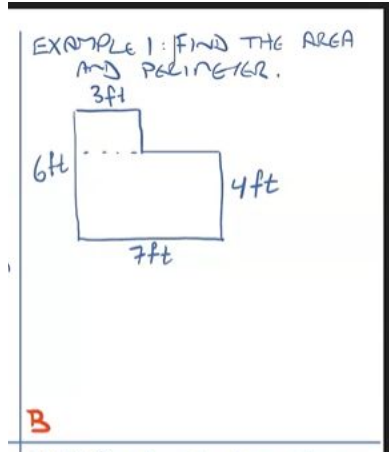
start

If true

Display plane and wait

Increment delay

If B pressed

Quadrant B:

Work this example by creating a flowchart


```
delay = 2

while True:
    display.show("Press A or B")

    if buttons.was_pressed(BTN_A):
        pixels.set(0, GREEN)
        pixels.set(3, BLACK)
        audio.mp3("sounds/codetrek")
    else:
        pixels.set(0, BLACK)
        pixels.set(3, GREEN)
        audio.mp3("sounds/codex")

    if buttons.was_pressed(BTN_B):
        delay = delay - 0.2
        display.show(pics.TARGET)
        sleep(delay)
```

BUILDING THINKING CLASSROOMS in MATHEMATICS
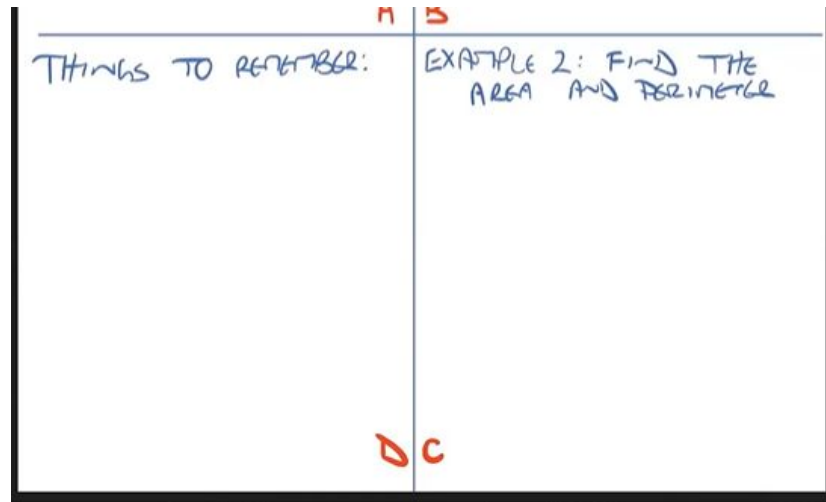
FIRIA LABS

Quadrant C and D:

Quadrant D:

things to remember, or notes to your future forgetful self

Quadrant C:

work your own example (flowchart only)