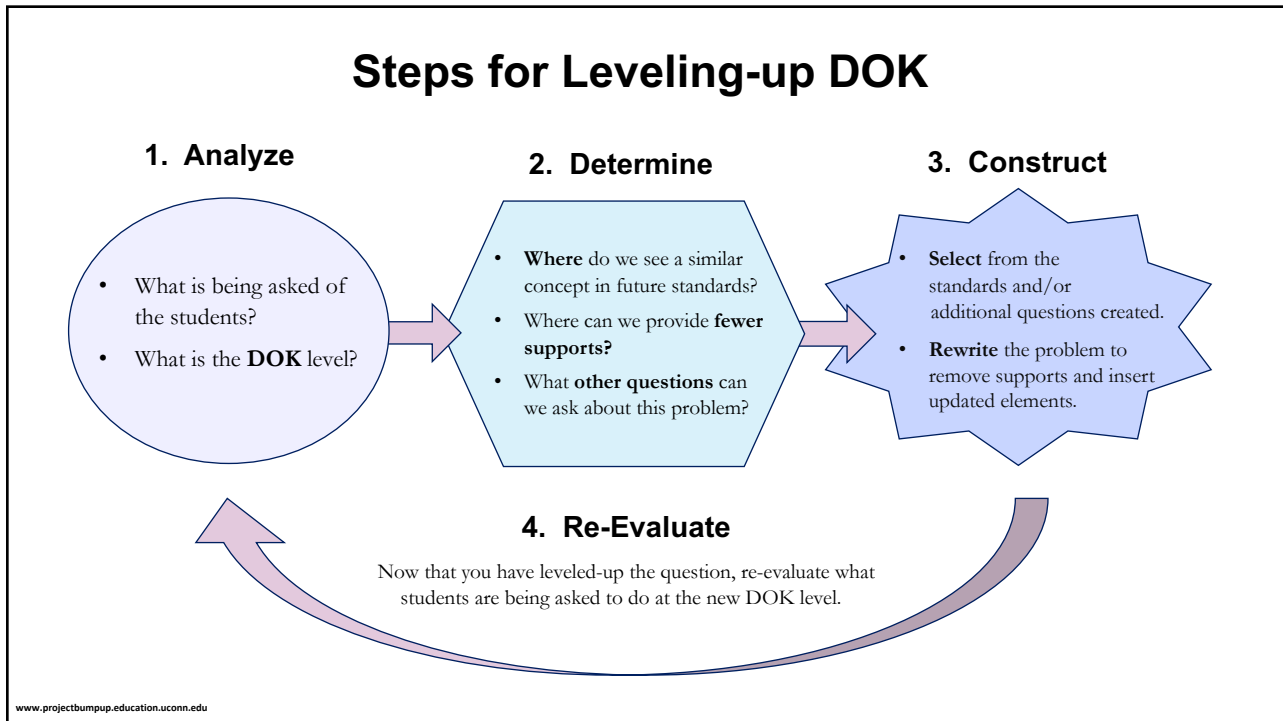


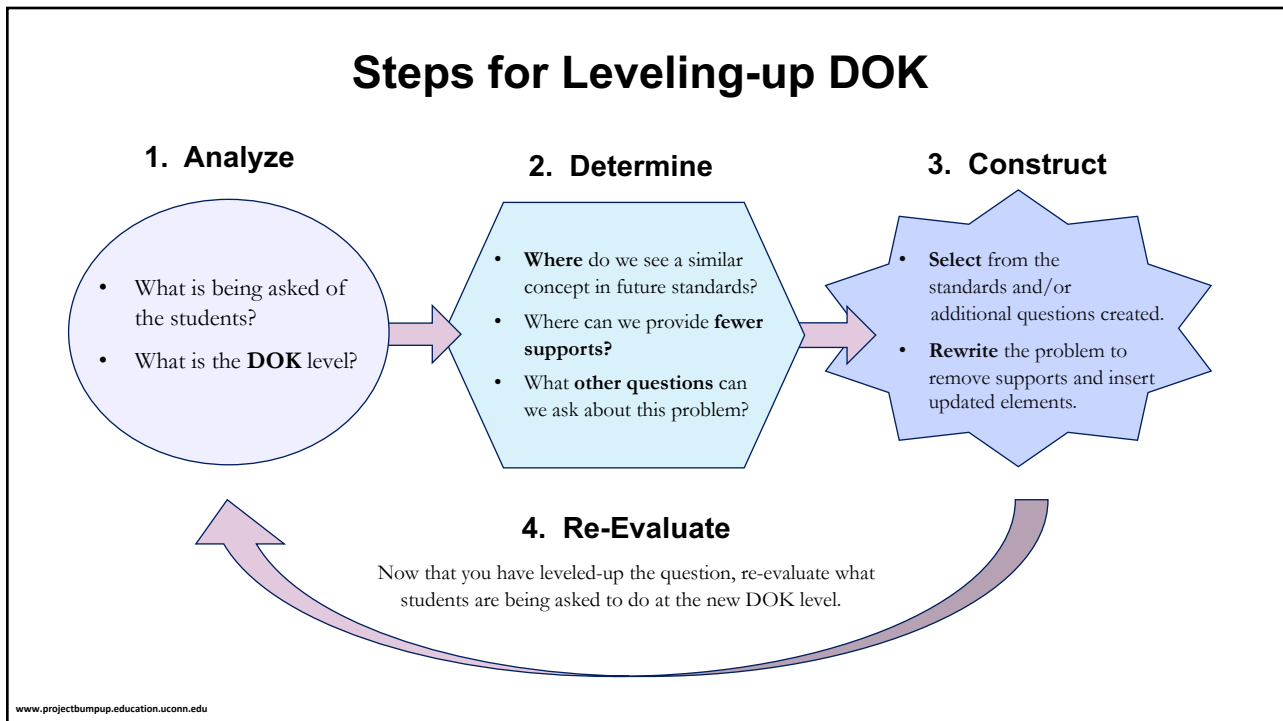
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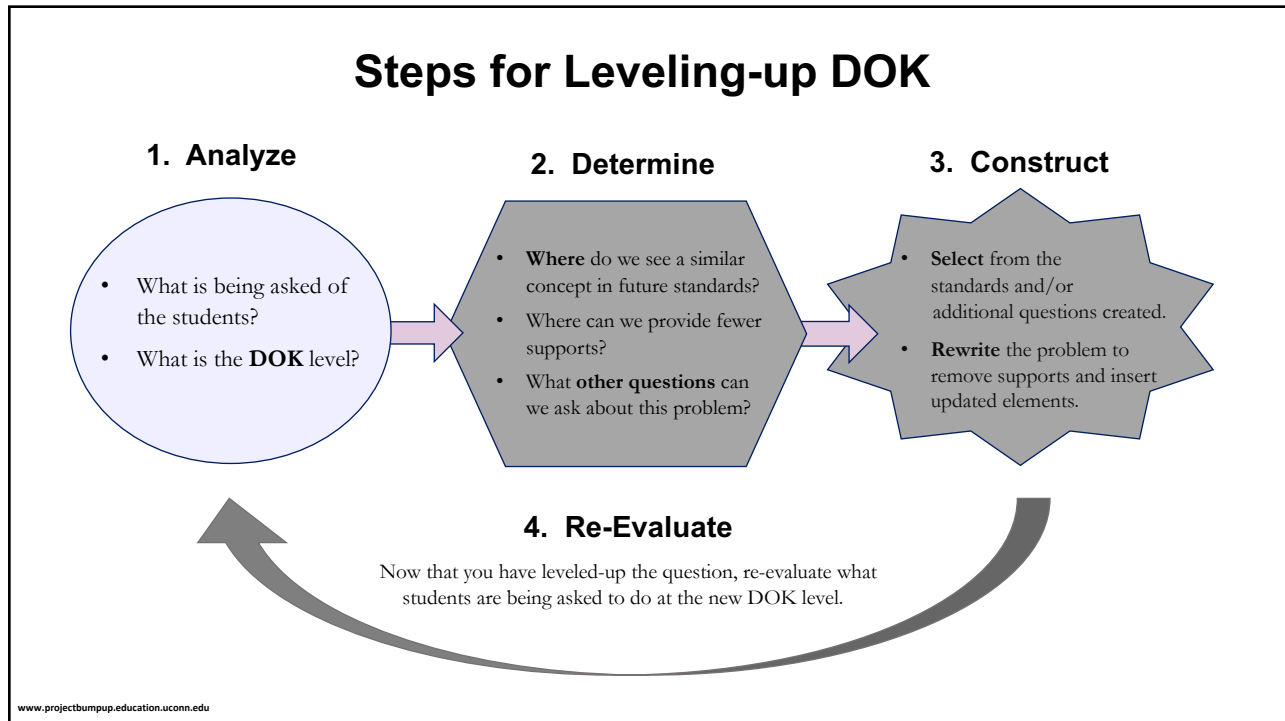
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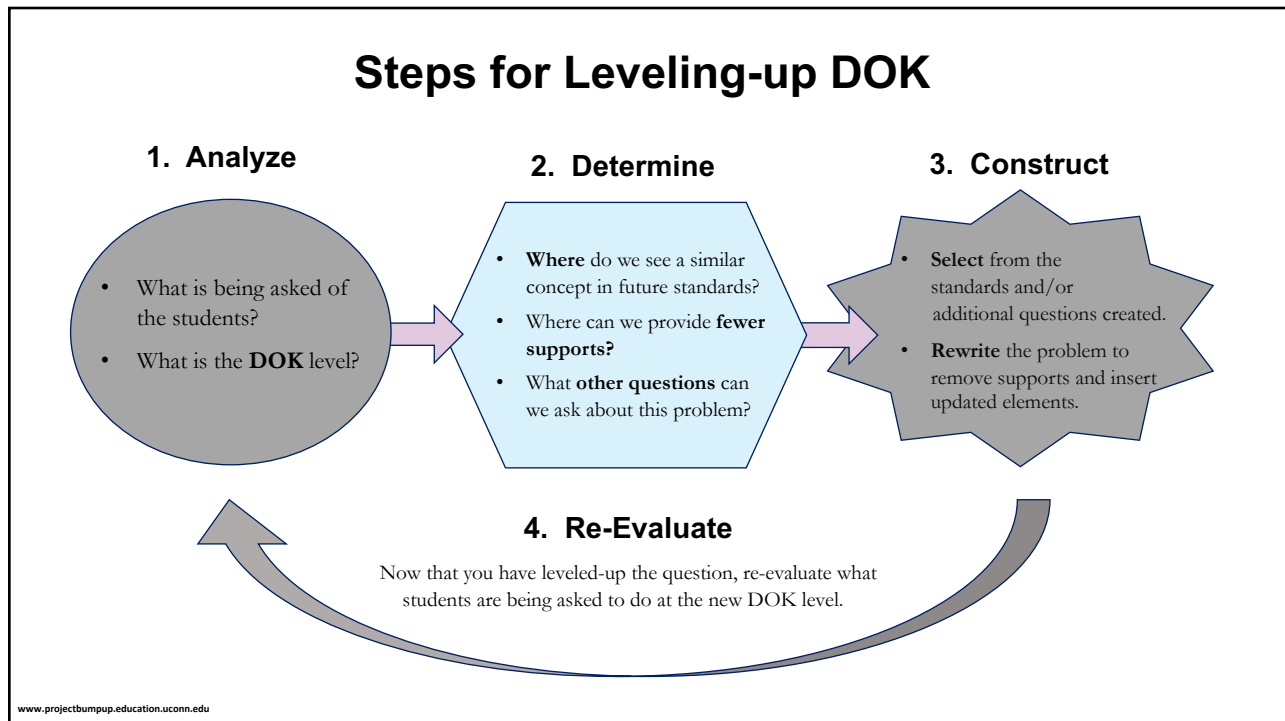
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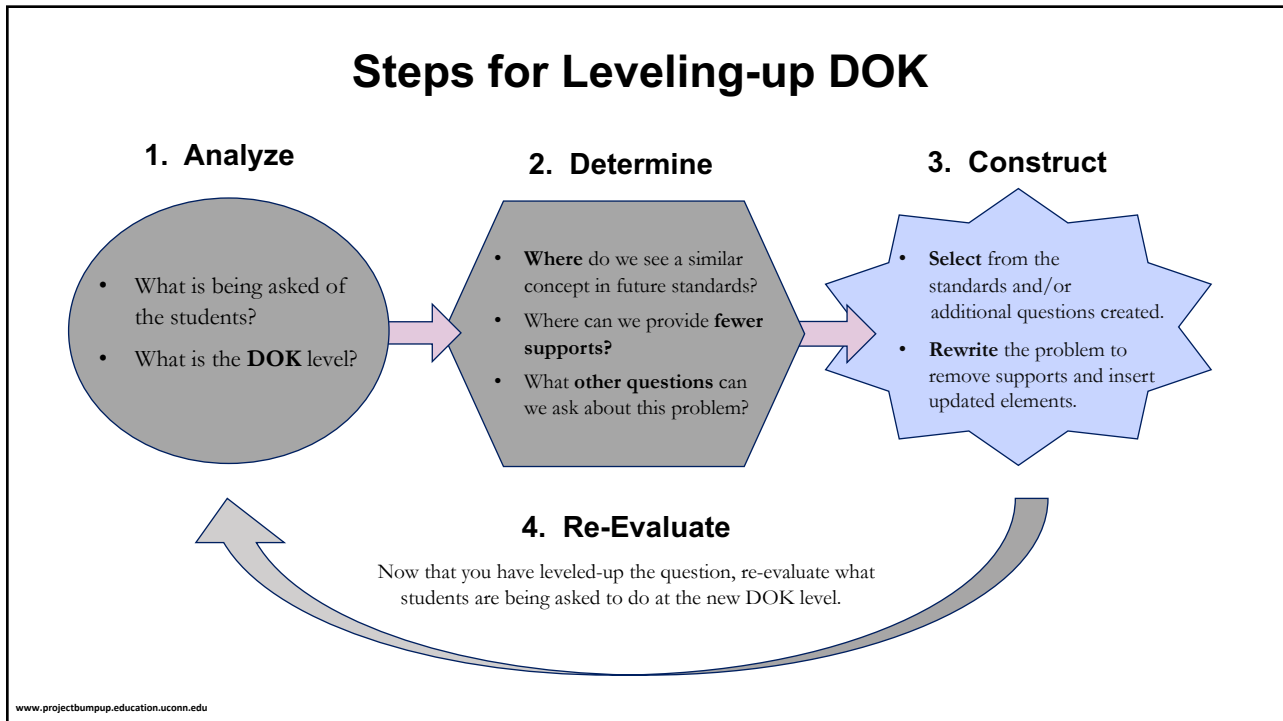
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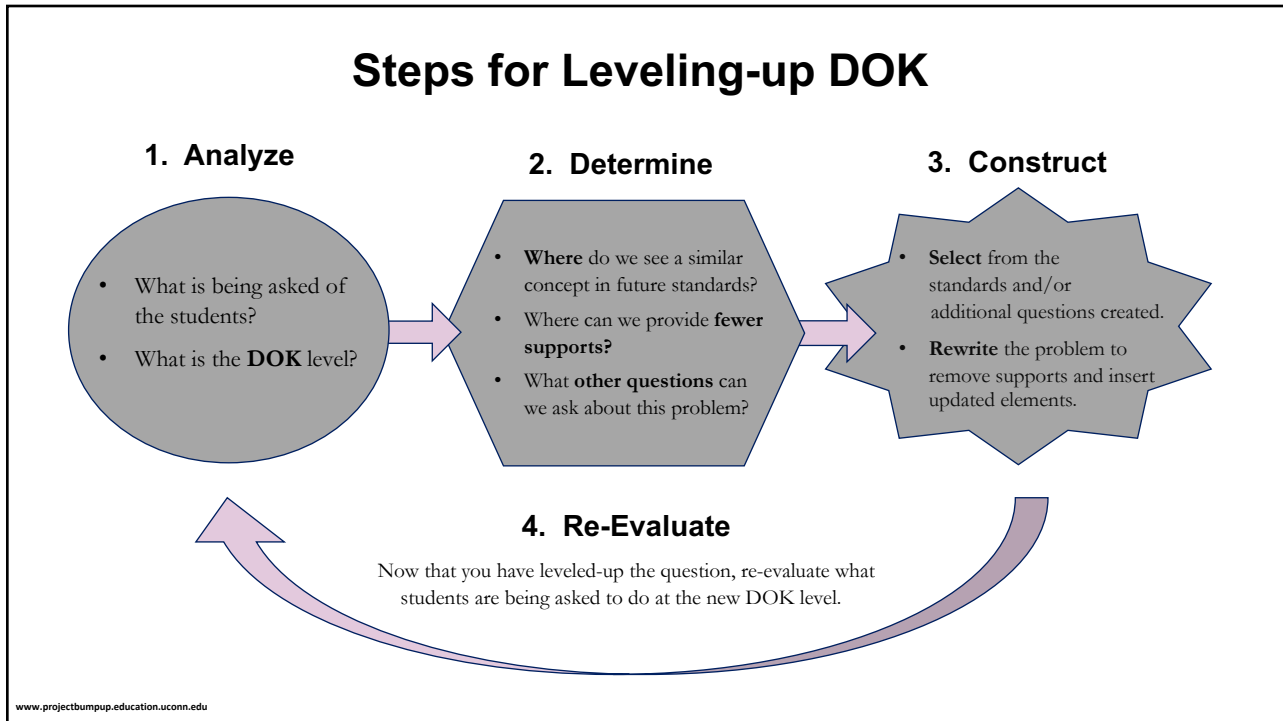
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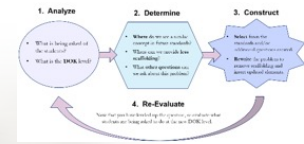


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# Original Problem



A photographer has files saved in three online albums.

- The Wedding album has 2,073 files.
- The Birthday album has 1,860 files.
- The Pets album has 2,370 files.

Which album has the most files? Show your work.

*Hint: You might want to use a place-value chart to compare these numbers.*

(Curriculum Associates, 2015)

# Currently, what is this question asking the student to do?

- Compare place value
- Order numbers least to greatest



A photographer has files saved in three online albums.

- The Wedding album has 2,073 files.
- The Birthday album has 1,860 files.
- The Pets album has 2,370 files.

**Which album has the most files? Show your work.**

*Hint: You might want to use a place-value chart to compare these numbers.*

(Curriculum Associates, 2015)

Currently, what is the **DOK** of this problem?



- DOK 2: Classifying a number and requiring students to make an informed decision using multiple steps to solve.

A photographer has files saved in three online albums.

- The Wedding album has 2,073 files.
- The Birthday album has 1,860 files.
- The Pets album has 2,370 files.

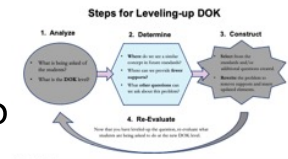
Which album has the most files? Show your work.

Hint: You might want to use a place-value chart to compare these numbers.

(Curriculum Associates, 2015)



Looking Ahead: When will we see a similar concept like this in the future?



- Comparing and ordering decimals

A photographer has files saved in three online albums.

- The Wedding album has 2,073 files.
- The Birthday album has 1,860 files.
- The Pets album has 2,370 files.

Which album has the most files? Show your work.

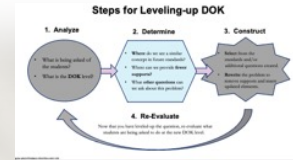
Hint: You might want to use a place-value chart to compare these numbers.

(Curriculum Associates, 2015)



## Where can we **provide fewer supports** for students?

- Eliminate the hint



A photographer has files saved in three online albums.

- The Wedding album has 2,073 files.
- The Birthday album has 1,860 files.
- The Pets album has 2,370 files.

Which album has the most files? Show your work.

*Hint: You might want to use a place-value chart to compare these numbers.*

(Curriculum Associates, 2015)



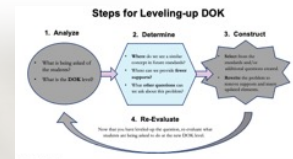
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## What **other questions can we ask** about this problem?

- Show two ways to answer the question, "Which album has the most files?"
- Use a diagram to help you solve this problem
- Order the files from least to greatest
- Explain your thought process
- Provide students the opportunity to use new math vocabulary (least and greatest) and symbols ( $<$ ,  $>$ ,  $=$ )
- Allow students to see that "most" is the same as "greatest"



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# How can we implement these questions? (Building the new problem)



## New Problem

A photographer has picture files saved in three online albums. The Wedding album has 2,073 files. The Birthday album has 1,860 files. The Pets album has 2,370 files.

- Order the files from least to greatest. Then, describe how you came up with an order for the numbers.
- Now, come up with another way to compare the number of files in each album. What makes this way different than the first way you solved this problem?
- After ordering the number of files, which album has the greatest (or most) number of files? Which album has the least (or smallest) number of files?

\*Part (c) is so the students can explicitly state their answer, and they self-correct by ensuring parts (a) and (b) are the same.



# Now, what is this question asking the student to do?



(This should be the same as the original question/task.)

- Compare place value of the numbers
- Order numbers from least to greatest



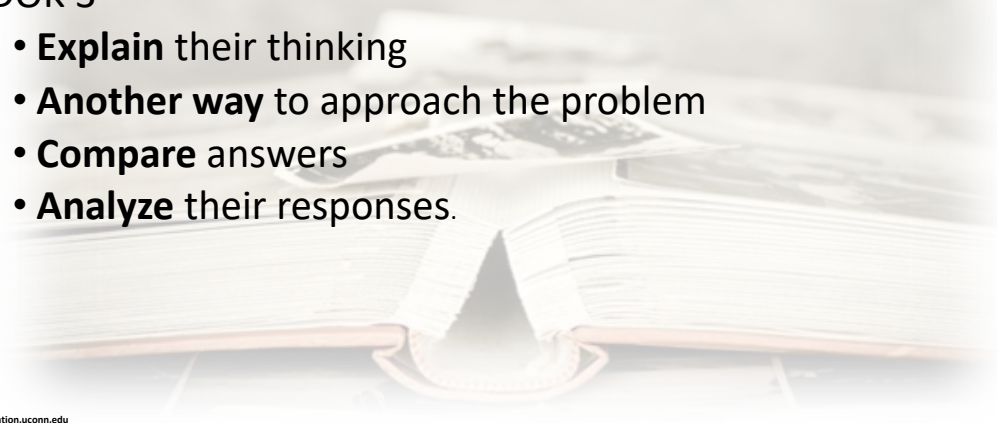


Now, what is the **DOK** of this problem?



(DOK should increase & look at Bloom's Taxonomy)

- DOK 3
  - **Explain** their thinking
  - **Another way** to approach the problem
  - **Compare** answers
  - **Analyze** their responses.

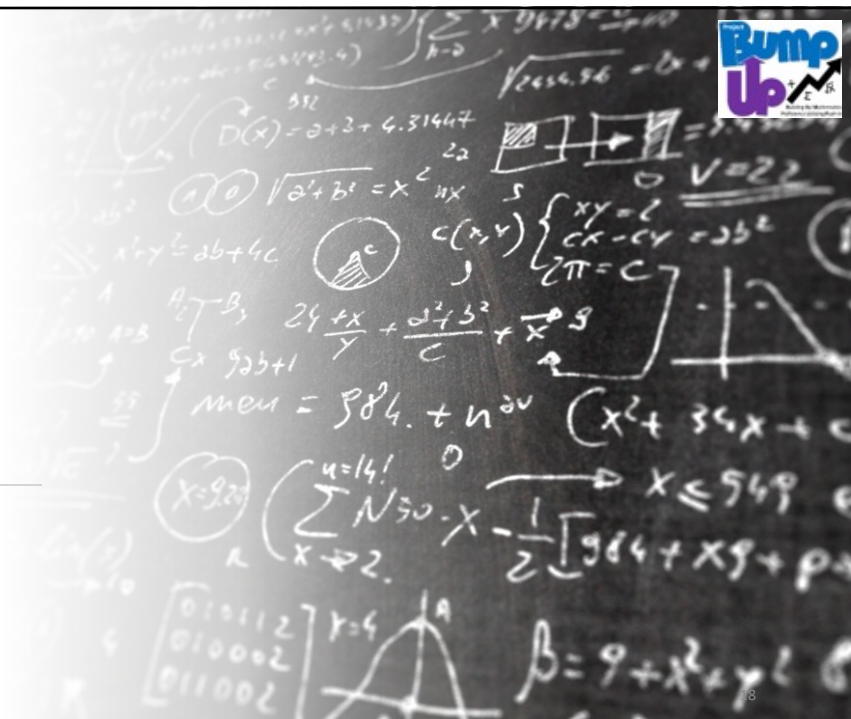


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Thank you!



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