Launch Options Sheet

Option 1 (featured in the resource)

Bushra presented the problem by telling her students about a recent trip to Hamburg where she learned about a famous new building there, opening in January 2017. The construction of the <u>Elbphilharmonie</u> went way over budget, in part (she was told) because of the cost of the windows, made using self-cleaning class.

She asked her students if they thought the self-cleaning class was worth the cost, which led to a heated debate.

Then she showed them the skyscraper problem and told them we were going to further investigate the cost of washing windows to see if we can come to a consensus about whether or not the building was worth it.

See below for the link to the presentation she used:

Was this building worth it? (PDF Version)

Option 2

Jon initiated the problem by using a three-reads protocol to help students decipher the many layers of the problem.

Read each question 3 times.

Time 1: General Idea

• Read through the question. Think about anything you know about this topic already.

Time 2: Monitor Understanding

- Underline key words
- ?s next to words you don't understand
- •! next to dangerous words (not, round to the nearest)

Time 3: Summary

• Read again and write the problem in your own words

Option 3

Additional MfA teachers who participated in the PLT introduced the problem using this <u>video</u> demonstrating the challenges involved in washing the windows in a skyscraper. By giving all students background knowledge into the context of the problem, students can more readily engage with the mathematical content.