

**Discussion Questions**  
**Math in Action Video: Landscape Architecture**  
**Landscape Designer – Om Khurjekar**

Duration 4:29

**Before Viewing the Video**

To help your students enjoy and gain information from watching the video, consider preparing them by

- Giving students a purpose for watching
- Reviewing the following vocabulary terms:
  - Symmetry
  - Area
  - Area Formula (rectangle)
- Discussing: How would you use a scale drawing to create a plan for the garden in front of a building such as our school?

**While Viewing the Video**

Use the following times to stop the video and facilitate a meaningful discussion.

***Pause Point #1: After the description of a landscape architect's job. (Time index 1:27)***

**Discussion Points:**

Synopsis: Mr. Khurjekar talks about relating the landscape design to the building.

Questions:

1. What does Mr. Khurjekar mean when he says the terrace should be a “flexible space”?
2. How does the design of the terrace relate to the architecture of the building?
3. What type of design do you think would be appropriate for a landscape design in front of our school?

***Pause Point #2: After the description of determining the number of plants near the terrace. (Time index 2:53)***

**Discussion Points:**

Synopsis: Mr. Khurjekar describes the math involved in landscape architecture.

Questions:

1. What specific math concepts were used in designing the plantings near the terrace?

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2. What does Mr. Khurjekar mean when he says that some of the planting is done “in a linear fashion”?

***Pause Point #3:** After the description of designing the walkway. (Time index 3:26)*

**Discussion Points:**

Synopsis: Mr. Khurjekar describes the math involved in determining the size of the walkway.

Questions:

1. What specific math concepts were used in designing the walkway?
2. What other design elements do you think led to the choices of the color and pattern for the new walkway?

***Pause Point #4:** At the end of the video. (Time index 4:29)*

**Discussion Points:**

Synopsis: Mr. Khurjekar reflects on the idea that it is important to understand the basics of mathematics no matter what career you choose.

Questions:

1. Why do you think that Mr. Khurjekar believes that understanding basic math concepts is important no matter what career you choose?
2. Do you agree that understanding basic math concepts is important no matter what career you choose? Explain the reasons for your answer.