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 NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Designing Learner-Centric MOOCs (course)**

 Announcements (announcements) **About the Course ([https://swayam.gov.in/nd1\\_noc20\\_ge12/preview](https://swayam.gov.in/nd1_noc20_ge12/preview))** Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

## Unit 6 - Week 2: Creating LeDs

### Course outline

How does an NPTEL online course work?

Warm Up

General Instructions

Week 1: Overview of MOOCs

Week 1: Introduction to LCM Model

Week 2: Creating LeDs

- LeD 2.1: What is an LeD? (unit? unit=25&lesson=26)
- Quiz : Practice Questions (LbD) on LeD 2.1 (assessment?name=112)
- LeD 2.2: Chunking a Lecture into LeD (unit? unit=25&lesson=27)
- Quiz : Practice Questions (LbD) on LeD 2.2 (assessment?name=113)
- LeD 2.3: Introducing Reflection Spot (unit? unit=25&lesson=28)
- Quiz : Practice Questions (LbD) on LeD 2.3 (assessment? name=114)**
- LeD 2.4: Making Your Own LeD (unit? unit=25&lesson=29)
- Quiz : Practice Questions (LbD) on LeD 2.4 (assessment?name=115)
- LeD 2.5.1: Do's and Don'ts - Part 1 (unit? unit=25&lesson=30)
- LeD 2.5.2: Do's and Don'ts - Part 2 (unit? unit=25&lesson=31)
- Quiz : Practice Questions (LbD) on LeD 2.5

## Practice Questions (LbD) on LeD 2.3

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2020-03-07, 23:59 IST.**

### Instructions:

The learning by doing (LbD) activities are aimed at providing practice questions, and will not be considered in final grading. Please find below the practice question, based on **LeD 2.3** ([https://onlinecourses.nptel.ac.in/noc20\\_ge12/unit?unit=25&lesson=28](https://onlinecourses.nptel.ac.in/noc20_ge12/unit?unit=25&lesson=28)) of Week 2.

1) Bhaskara's Proof of Pythagorean Theorem

**1 point**

### 02 Pythagorean theorem proofs 02 Bhaskara's proof of the Pythagorean theorem



NOTE: The video titled "02 Pythagorean theorem Proofs 02 Bhaskara's Proof of Pythagoras Theorem" uploaded by LearnHub is shared under Creative Commons License (Reuse Allowed).

A Mathematics Faculty, after taking the LCM course, is planning to create a MOOC for teaching the topics in trigonometry. One of the topics in the course is "Pythagoras theorem". The Faculty found a video from Khan Academy that explains Bhaskara's proof of Pythagorean theorem (see above), and wants to recreate it as an LeD. The video is in Creative Commons license with reuse allowed, eliminating any copyright related fears as long as attribution is made.

To make it into an LeD format, the faculty is thinking of the following timestamps for creating reflection spots. Which of the these do you think are appropriate reflection spots? [Check all that apply]

(assessment?name=116)

- LeD 2.6: LeDs Takeaway (unit?unit=25&lesson=32)
- Practice Activity on LeD 2.6 (unit?unit=25&lesson=138)
- FAQs\_on\_Reflection Spot\_Part 1 (unit?unit=25&lesson=93)
- FAQs\_on\_Reflection Spot\_Part 2 (unit?unit=25&lesson=94)

#### Week 2: Interactive Videos

#### Week 3: Creating LbDs and LxTs

#### Week 3: Assessment in Online Courses

#### Week 4: Creating LxIs and Orchestration

#### Week 4: Research and Practice in Online Forums

#### FAQ: Creating your own LCM

#### Live Interactive Sessions

#### Behind the Scenes in LCM

#### Text Transcripts

- A. At t=0:49, "What is the area of the square?"
- B. At t=4:14, "What is the area of the entire square in terms of 'c'?"
- C. At t=7:10, "How can you express the area of the new figure in terms of 'a' and 'b'?"

No, the answer is incorrect.

Score: 0

Feedback:

Feedback:

*All the above mentioned reflection spots are valid. However, you will have to look carefully at the purpose of reflection spot to design them effectively. The reflection spot should allow a learner to reflect/opine/do micro-practice on the content so that concept acquisition happens. When the instructor follow up on the reflection spot by providing his/her explanation, it will reinforce the concept acquisition, and dispel any alternate conceptions in the learner's mind.*

Accepted Answers:

A. At t=0:49, "What is the area of the square?"

B. At t=4:14, "What is the area of the entire square in terms of 'c'?"

C. At t=7:10, "How can you express the area of the new figure in terms of 'a' and 'b'?"