

Transcript – Case Studies: Instructions

Now let's tie it all together by examining two case studies.

Take a moment to review the student work samples for Student A and Student B.

What evidence indicates that Student A has computational fluency as related to polynomial operations? What evidence indicates that Student A has mathematical proficiency as related to polynomial operations? What evidence is missing?

What evidence indicates that Student B has computational fluency as related to polynomial operations? What evidence indicates that Student B has mathematical proficiency as related to polynomial operations? What evidence is missing?

Record your observations in your Case Study Recording Sheet journal page.

Transcript – Case Studies: Possible Responses

You may have noticed that Student A correctly represents the composite area necessary to solve the problem; however, we do not know whether or not this student is able to determine the value of x . This student appears to have used the idea that composite area is found by determining the area of each part and adding them together. This student did not answer the question.

You may have noticed that Student B appears to understand how to determine the value of x , but is unable to write an algebraic expression for the area he is looking for.

What steps might the teacher take to address computational fluency and mathematical proficiency?