



#### **Student Outcomes**

Students complete the construction of a nine-point circle.

#### **Lesson Notes**

In Lesson 32, students will continue the construction of a nine-point circle. Students will articulate the steps needed to do the construction for each.

Note that the Problem Set exercise is challenging and time-consuming. While a good opportunity to build students' ability to persevere, it may be modified to lessen the burden of so many constructions.

# Classwork

## **Opening Exercise (5 minutes)**

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During this unit we have learned many constructions. Now that you have mastered these constructions, write a list of advice for someone who is about to learn the constructions you have learned for the first time. What did and did not help you? What tips did you wish you had at the beginning that would have made it easier along the way?

## **Exploratory Challenge 1 (15 minutes)**

e learn about the triangle that we start our
circle. With a partner, work through both
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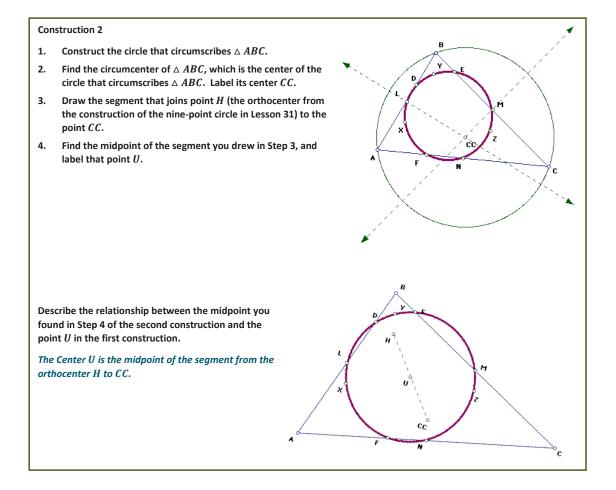


Lesson 32: Construct Date: 10/10/14

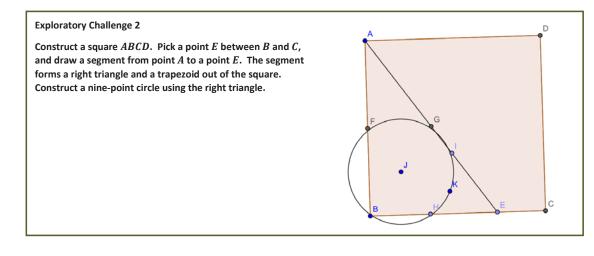
Construct a Nine-Point Circle 10/10/14







# Exploratory Challenge 2 (15 minutes)



# Exit Ticket (10 minutes)



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Name

Date\_\_\_\_\_

# Lesson 32: Construct a Nine-Point Circle

**Exit Ticket** 

Construct a nine-point circle, and then inscribe a square in the circle (so that the vertices of the square are on the circle).



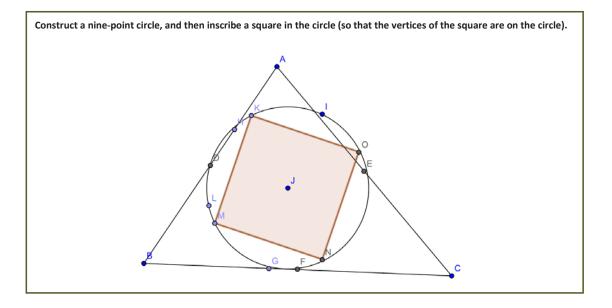
Construct a Nine-Point Circle 10/10/14



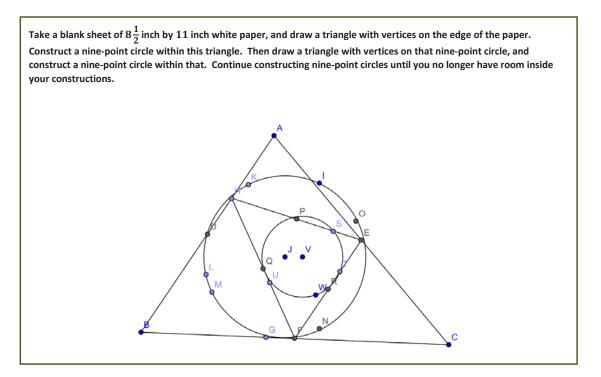




# **Exit Ticket Sample Solutions**



# **Problem Set Sample Solutions**





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