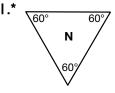
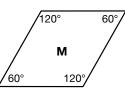
### **Student Activity Book**

### **Measuring Polygon Angles**

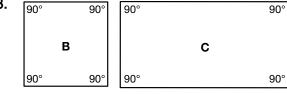
### Questions 1-10 (SAB pp. 329-331)

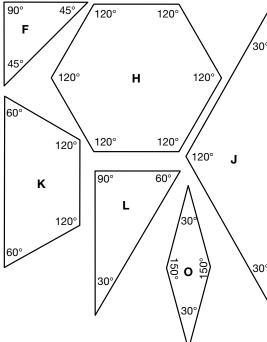


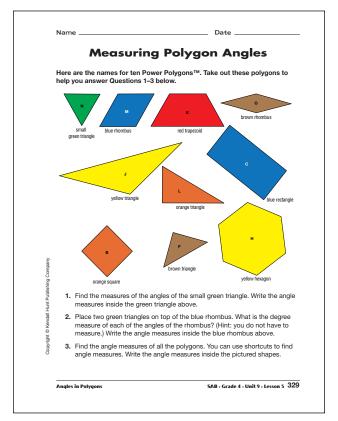
2.\*



3.





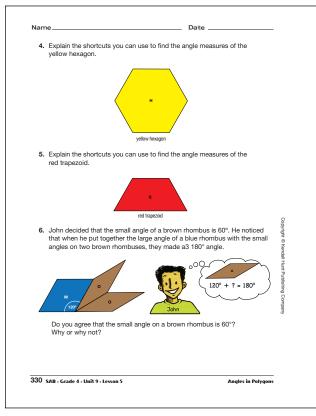


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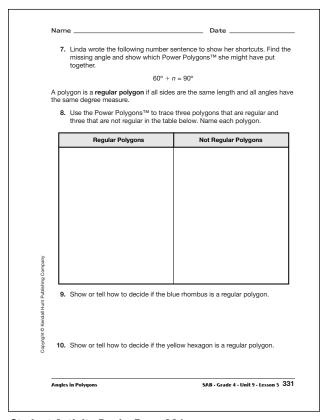
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<sup>\*</sup>Answers and/or discussion are included in the lesson.

## **Answer Key • Lesson 5: Angles in Polygons**

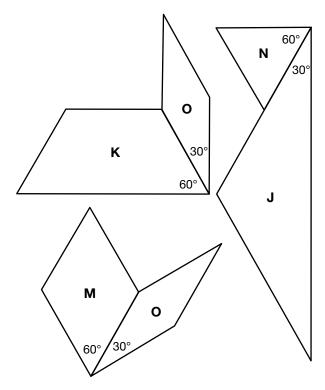


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- **4.** Answers may vary. Possible response: Two red trapezoids (K) cover the yellow hexagon (H), which is a regular shape. I know one angle is 120°, so they all are 120°.
- **5.** Answers may vary. Possible response: I used a small green triangle (N). The acute angle is 60° and the obtuse angle is two 60° angles which is 120°.
- **6.** No, John did not consider that there are two brown rhombuses. He should have divided 60° by 2.
- 7.  $N = 30^{\circ}$ ;  $60^{\circ} + 30^{\circ} = 90^{\circ}$ Responses may vary. Possible response:



- **8.** Regular polygons include the small green triangle (N), orange square (B), and yellow hexagon (H). All others are not regular.
- **9.** Sides are equal but all angles are not equal.
- **10.** All sides and all angles are equal.

# **Student Activity Book**

## **Add and Subtract Angles**

# Questions 1-5 (SAB pp. 332-333)

- I.  $\angle A$  is about 35°
  - ∠B is about 155°
  - ∠C is about 135°
  - ∠D is about 90°
  - ∠E is about 29°
  - ∠F is about 276°
- **2.**  $\angle R = 65^{\circ}$ 
  - $\angle U = 45^{\circ}$
  - $\angle X = 10^{\circ}$
- **3 A.** 90°
  - **B.** 90°
  - **C.** 90°
  - **D.** The sum of the acute angles in a right triangle is 90°.
- **4.**  $\angle G = 20^{\circ}$ 
  - $\angle H = 70^{\circ}$
- **5. A.**  $n = 30^{\circ}$



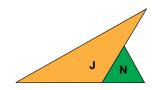
**B.**  $n = 60^{\circ}$ 

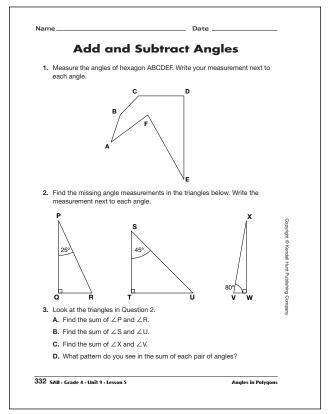


**C.**  $n = 45^{\circ}$ 

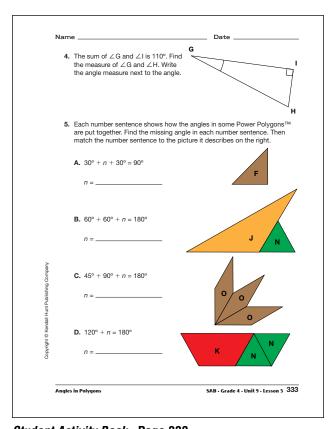


**D.**  $n = 60^{\circ}$ 





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