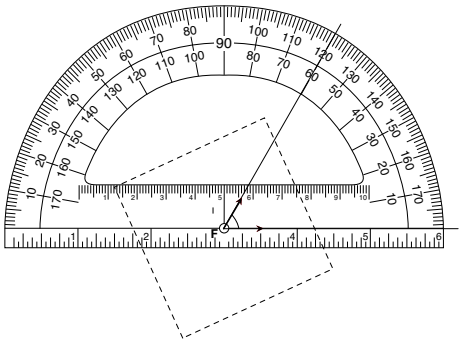
Name _____ Date _____

Measuring Angles

1. Maya measured ∠F from the Angle Sort Cards. She taped the card in the center of the paper and extended the rays of the angle.



A. Record your angle description from the back of the ∠F card.

B. What is the measure of ∠F? _____

C. Compare your estimate to your measurement.

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Name _____ Date _____

2. Use Maya's method and your protractor to measure the size of a different angle from the Angle Sort Cards.

A. Record your angle size description from the back of the card.

B. What is the measure of your angle? _____ .

C. Compare your description to your measurement.

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The Drawing Angles section of the *Student Guide* sthows how to use a ruler and protractor to draw angles.

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Student Activity Book

Measuring Angles

Questions 1–2 (SAB pp. 323–324)

1. **A.** Responses will vary.
   B. 60°
   C. Responses will vary.
2. **A–C.** Responses will vary.

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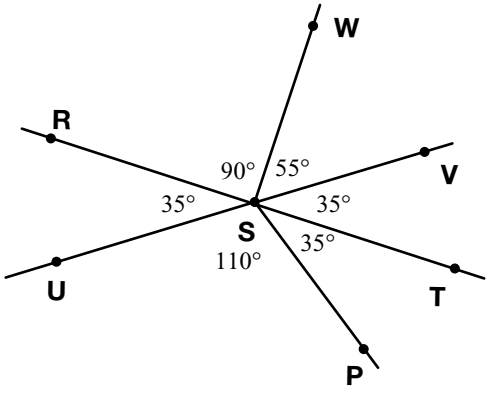
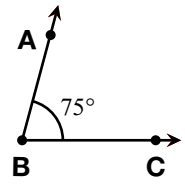
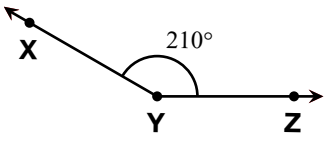
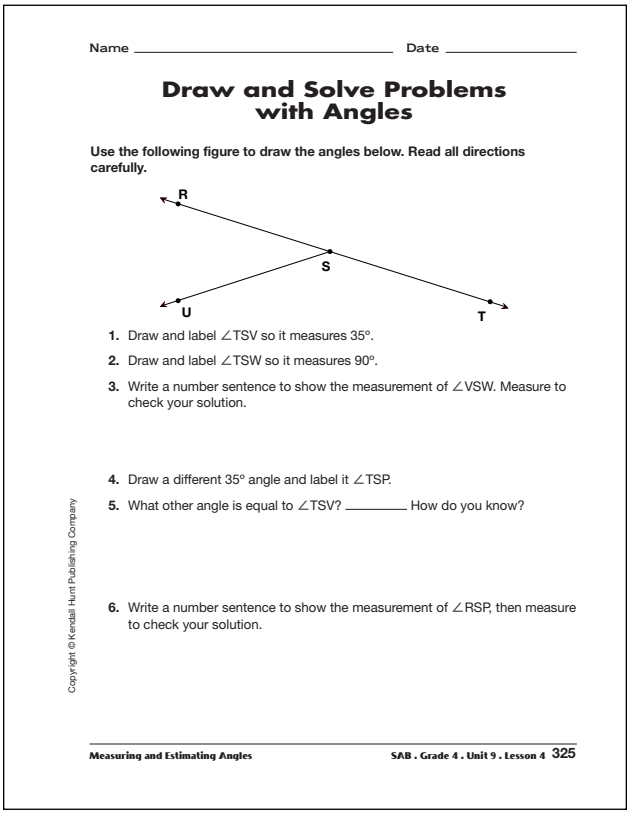
Draw and Solve Problems with Angles

Questions 1–16 (SAB pp. 325–328)



1. See figure above.
2. See figure above.
3. Possible response: 90° – 35° = 55°
4. See figure above.
5. ∠RSU. Possible response: $\overline{UV}$ = 180°, ∠VSW = 55°, ∠WSR = 90°, 55° + 90° = 145°, 180° − 145° = 35°
6. Possible response: 180° − 35° = 145°
7. **A.** 35° + 35° = 70°
   B. 35° + 55° = 90°
   C. 145° + 35° = 180°
   D. 55° + 35° + 35°= 125°
   E. 35° + 110° + 35°= 180°
8. 





Name _____ Date _____

Draw and Solve Problems with Angles

Use the following figure to draw the angles below. Read all directions carefully.

1. Draw and label ∠TSV so it measures 35°.
2. Draw and label ∠TSW so it measures 90°.
3. Write a number sentence to show the measurement of ∠VSW. Measure to check your solution.
4. Draw a different 35° angle and label it ∠TSP.
5. What other angle is equal to ∠TSV? _____ How do you know?
6. Write a number sentence to show the measurement of ∠RSP, then measure to check your solution.

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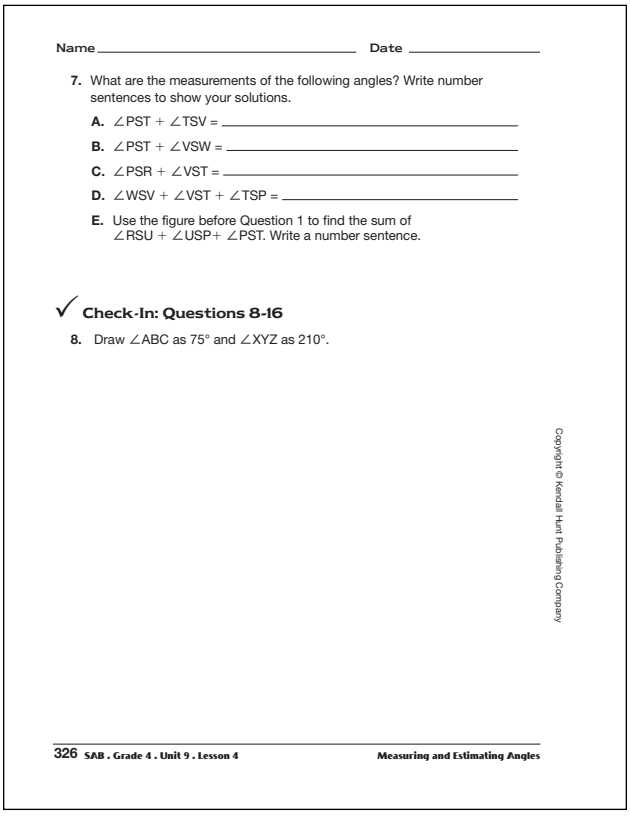

Name _____ Date _____

7. What are the measurements of the following angles? Write number sentences to show your solutions.
   A. ∠PST + ∠TSV = _____
   B. ∠PST + ∠VSW = _____
   C. ∠PSR + ∠VST = _____
   D. ∠WSV + ∠VST + ∠TSP = _____
   E. Use the figure before Question 1 to find the sum of ∠RSU + ∠USP+ ∠PST. Write a number sentence.

✓ **Check-In: Questions 8-16**

8. Draw ∠ABC as 75° and ∠XYZ as 210°.

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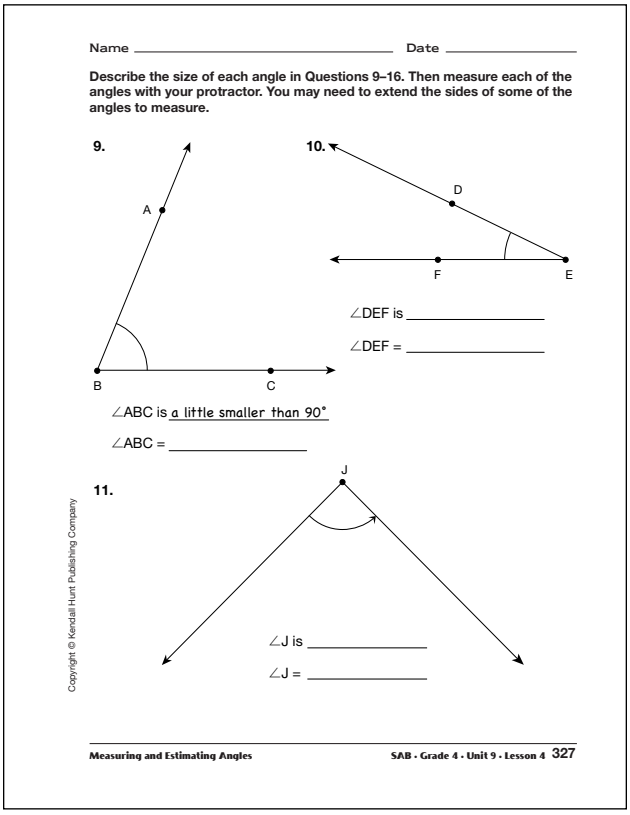

Name _____ Date _____

Describe the size of each angle in Questions 9–16. Then measure each of the angles with your protractor. You may need to extend the sides of some of the angles to measure.

9.

A

B C

∠ABC is a little smaller than 90°

∠ABC = _____

10.

D

F E

∠DEF is _____

∠DEF = _____

11.

J

∠J is _____

∠J = _____

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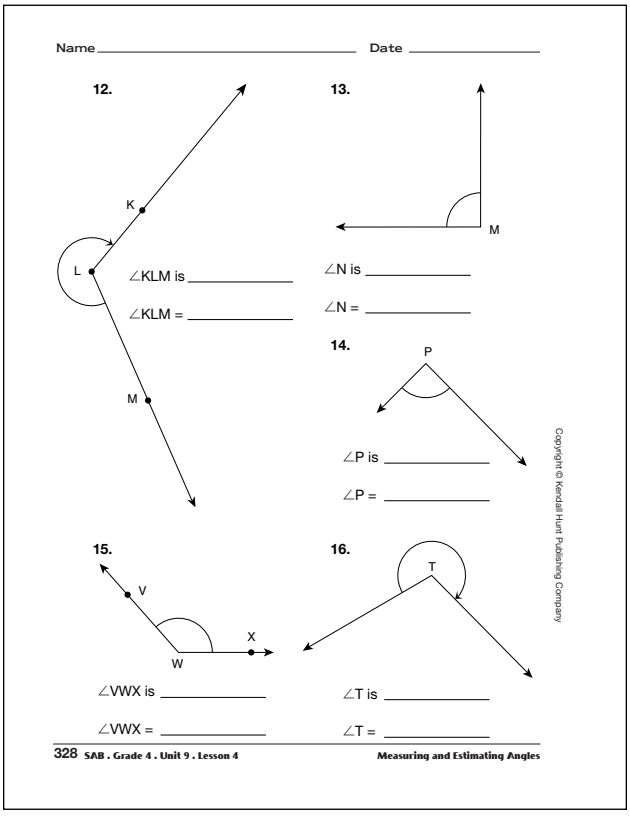

Name _____ Date _____

12.

K

L

M

∠KLM is _____

∠KLM = _____

13.

M

∠N is _____

∠N = _____

14.

P

∠P is _____

∠P = _____

15.

V

W X

∠VWX is _____

∠VWX = _____

16.

T

∠T is _____

∠T = _____

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9–16: Responses will vary for each estimate. Sample responses are shown.

9. ∠ABC = 68°

10. ∠DEF is smaller than 90°, and closer to 0°. ∠DEF = 26°.

11. ∠J is close to 90°. ∠J = 90°.

12. ∠KLM is a reflex angle between 180° and 270°. ∠KLM = 244°.

13. ∠M is close to 90°. ∠M = 90°.

14. ∠P is close to 90°. ∠P = 90°.

15. ∠VWX is larger than 90°. ∠VWX = 133°.

16. ∠T is a reflex angle a little smaller than 270°. ∠T = 255°.

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