

10.1 EXERCISES

HOMWORK KEY ★ = STANDARDIZED TEST PRACTICE
 ○ = HINTS AND HOMEWORK HELP
 for Exs. 1, 7, 11, 17, 41 at classzone.com

SKILL PRACTICE

- VOCABULARY** Match the angle measure with its classification.
- | | |
|----------------|-------------|
| 1. 78° | A. Right |
| 2. 90° | B. Straight |
| 3. 168° | C. Obtuse |
| 4. 180° | D. Acute |

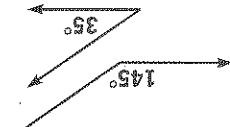

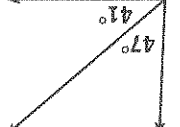
CLASSIFYING ANGLES Classify the angle as *acute*, *right*, *obtuse*, or *straight*.

5.  5. **Right**
6.  6. **Straight**
7.  7. **Right**
8.  8. **Acute**

9. **MULTIPLE CHOICE** What type of angle is $\angle RST$ if $m\angle RST = 56^\circ$?

- A. Right B. Straight C. Obtuse D. Acute

COMPLEMENTARY AND SUPPLEMENTARY ANGLES Tell whether the angles are *complementary*, *supplementary*, or *neither*. Explain your reasoning.

10.  10. **Supplementary**
11.  11. **Complementary**
12.  12. **Neither**

FINDING ANGLE MEASURES For the given angle measure, find the measure of a supplementary angle and the measure of a complementary angle, if possible.

13. 19° 14. 73° 15. 118° 16. 90°
17. 22° 18. 162° 19. 180° 20. 3°




21. **ERROR ANALYSIS** $\angle A$ and $\angle B$ are supplementary angles, and $m\angle A = 70^\circ$. Describe and correct the error made in finding $m\angle B$.

$m\angle A + m\angle B = 90^\circ$
 $70^\circ + m\angle B = 90^\circ$
 $m\angle B = 20^\circ$

22. **MULTIPLE CHOICE** $\angle C$ and $\angle D$ are complementary angles, and $m\angle C = 26^\circ$. What is $m\angle D$?

- A. 26° B. 64° C. 90° D. 154°

ALGEBRA Find the measures of all the angles.

23.  23.
24.  24.
25.  25.