

Enrich

Classify or Give the Angle!

You already know that the measure of the complement angle and the measure of the original angle add up to 90° and that the measure of the supplement angle and the measure of the original angle add up to 180° . You can use or combine these ideas to learn more about complements and supplements.

For Exercise 1-5, answer *acute, right, obtuse, or straight*. (Hint: There may be more than one answer.)

1. I am an angle that has no complement. What type of angle am I?
2. I am an angle that is congruent to my complement. What type of angle am I?
3. I am an angle that is congruent to my supplement. What type of angle am I?
4. I am an angle that has no supplement. What type of angle am I?
5. I have a complement and I have a supplement. What type of angle am I?

For Exercises 6-9, use the *guess, check, and revise* strategy to find the angle measure.

6. My complement is 40° more than I am. What is my measure?
7. The measure of my complement plus the measure of my supplement gives me a straight angle. What is my measure?
8. My measure is four times the measure of my complement. What is my measure?
9. Five times my measure is the same as my supplement. What is my measure?