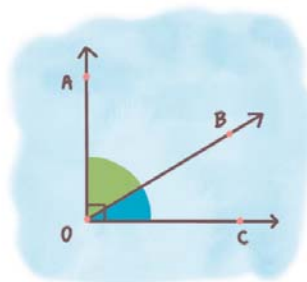


Name :

Class :



## COMPLEMENTARY ANGLES



Two angles are called complementary when their sum adds up to 90 degrees.

$$\text{Mathematically: } \angle AOB + \angle BOC = 90^\circ$$

### A) Find the complement of each angle

1)  $81^\circ$

Complement of  $81^\circ = \underline{\quad 9^\circ \quad}$

3)  $45^\circ$

Complement of  $45^\circ = \underline{\quad 45^\circ \quad}$

5)  $65^\circ$

Complement of  $65^\circ = \underline{\quad 25^\circ \quad}$

2)  $71^\circ$

Complement of  $71^\circ = \underline{\quad 19^\circ \quad}$

4)  $30^\circ$

Complement of  $30^\circ = \underline{\quad 60^\circ \quad}$

6)  $10^\circ$

Complement of  $10^\circ = \underline{\quad 80^\circ \quad}$

### B) State whether the given pairs are complementary or not

1)  $70^\circ, 50^\circ$

not Complementary

3)  $50^\circ, 430^\circ$

Complementary

5)  $80^\circ, 110^\circ$

not Complementary

2)  $64^\circ, 24^\circ$

Complementary

4)  $120^\circ, 52^\circ$

Complementary

6)  $40^\circ, 40^\circ$

Complementary

### C) Find the other angle

1) If 3 and 4 are complementary angles, and  $m\angle 3 = 50^\circ$ ; find  $m\angle 4$ .

$m\angle 4 = 40^\circ$

2) If 6 and 8 are complementary angles, and  $m\angle 6 = 80^\circ$ ; find  $m\angle 8$ .

$m\angle 8 = 10^\circ$

3) If 9 and 11 are complementary angles, and  $m\angle 9 = 11^\circ$ ; find  $m\angle 11$ .

$m\angle 11 = 79^\circ$