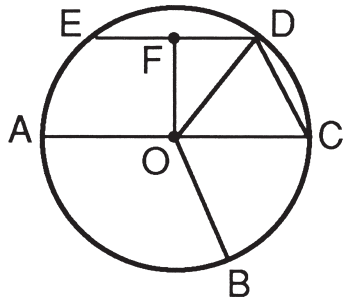
TABLE OF CONTENTS

COMPARING LENGTHS

The center of each circle is "O."
Circle the letter in front of each statement that is true.

Example



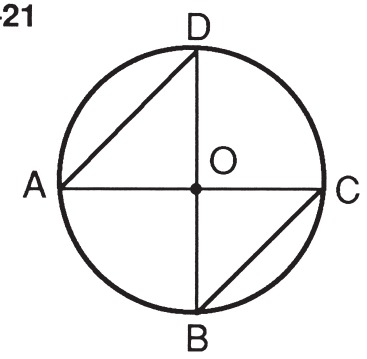
$\overline{AC}$ is parallel to $\overline{ED}$.

(a.) $\overline{OD}$ is congruent to $\overline{OB}$. (b.) $\overline{OF}$ is shorter than $\overline{OD}$.

c. $\overline{AO}$ is congruent to $\overline{OF}$. (d.) $\overline{ED}$ is shorter than $\overset{\frown}{ED}$.

(e.) $\overset{\frown}{AE}$ is congruent to $\overset{\frown}{DC}$. f. $\overset{\frown}{AE}$ is longer than $\overset{\frown}{DC}$.

B–21



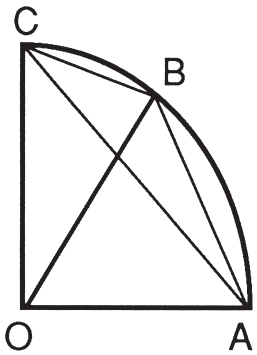
$\overline{AC}$ and $\overline{BD}$ are perpendicular line segments.

a. $\overline{AD}$ is congruent to $\overline{BC}$. b. $\overline{AO}$ is congruent to $\overline{AD}$.

c. $\overset{\frown}{AD}$ is shorter than $\overset{\frown}{BC}$. d. $\overline{BD}$ is longer than $\overline{AC}$.

e. $\overset{\frown}{BC}$ is longer than $\overline{AD}$. f. $\overset{\frown}{DC}$ is shorter than $\overset{\frown}{AB}$.

B–22



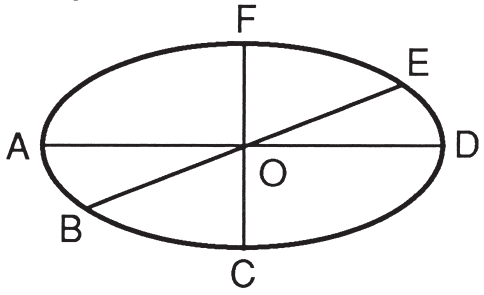
$\overset{\frown}{AC}$ is $\frac{1}{4}$ of a circle with the center at "O."

a. $\overline{OC}$ is shorter than $\overline{AC}$. b. $\overset{\frown}{AC}$ is longer than $\overline{AC}$.

c. $\overline{AB}$ is congruent to $\overline{BC}$. d. $\overline{AB}$ is congruent to $\overset{\frown}{BC}$.

e. $\overline{AC}$ is shorter than $\overset{\frown}{AB}$. f. $\overline{OB}$ is longer than $\overline{OC}$.

B–23



The curved figure is an ellipse.

a. $\overline{OF}$ is longer than $\overline{AO}$. b. $\overline{OF}$ is congruent to $\overline{OE}$.

c. $\overline{AD}$ is shorter than $\overline{FC}$. d. $\overline{AD}$ is longer than $\overline{BE}$.

e. $\overline{BO}$ is shorter than $\overline{OD}$. f. $\overline{BO}$ is congruent to $\overline{OF}$.

USING NUMBER PROPERTIES

N represents a whole number.
Find all possible values of N described in each exercise below.

Example

Properties of N	Possible Values of N
N is odd. N > 3. N < 12. 3 does not divide N. N does not divide 5.	7, 11

C–175

Properties of N	Possible Values of N
N < 10. 2 does not divide N. 3 does not divide N. N is not prime.	

C–176

Properties of N	Possible Values of N
N is a two-digit number. N < 40. 9 divides the sum of the two digits.	

C–177

Properties of N	Possible Values of N
N < 40. N is a multiple of 3. N is odd. 9 does not divide N.	

C–178

Properties of N	Possible Values of N
N > 10. N < 40. N is prime. The sum of the digits of N is less than 10.	

C–179

Properties of N	Possible Values of N
N is even. N < 50. N is a multiple of 3. 9 divides the sum of its digits.	