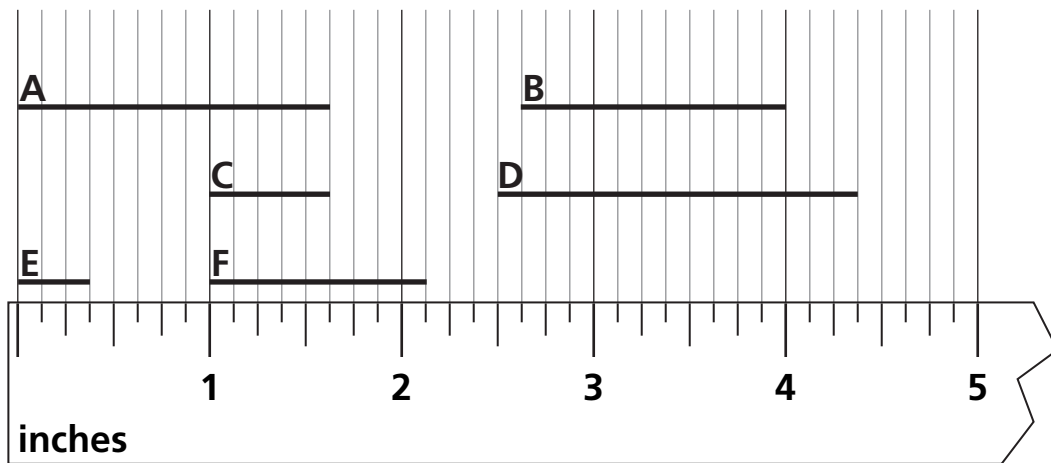# Measuring to the Nearest $\frac{1}{8}$ Inch

1 On the ruler above, how many spaces
is each inch divided into?   _____

2 Write the measurement of each segment to
the nearest $\frac{1}{8}$ inch.

A: _____ in.   **C:** _____ in.   **E:** _____ in.

B: _____ in.   **D:** _____ in.   **F:** _____ in.

3 Write the lengths of the segments in order
from shortest to longest.

_____   _____   _____   _____   _____   _____

Measuring Circles

The distance across a circle, through its center, is called the *diameter* of the circle.

The distance around the circle is called the *circumference* of the circle. (You could measure it by bending a piece of string along the circle and then measuring the straightened-out string with a ruler.)
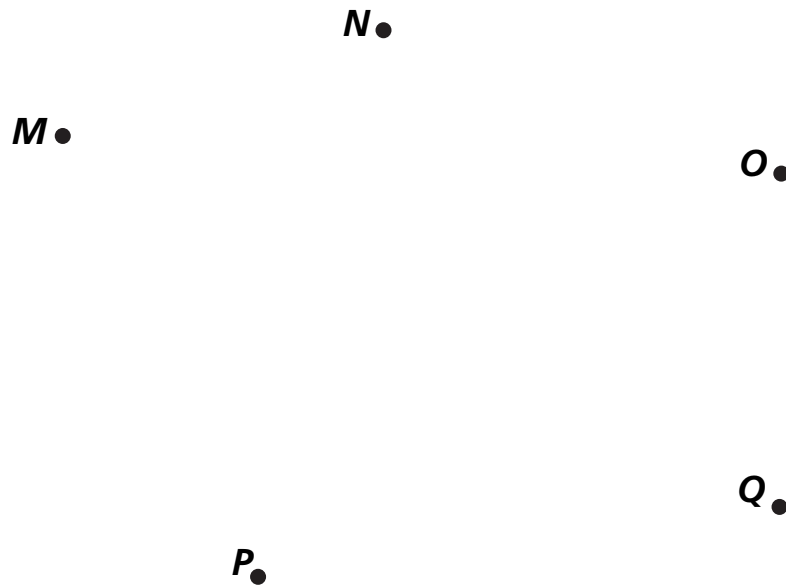
Measure the diameter and circumference of each circle to the nearest $\frac{1}{4}$ inch.
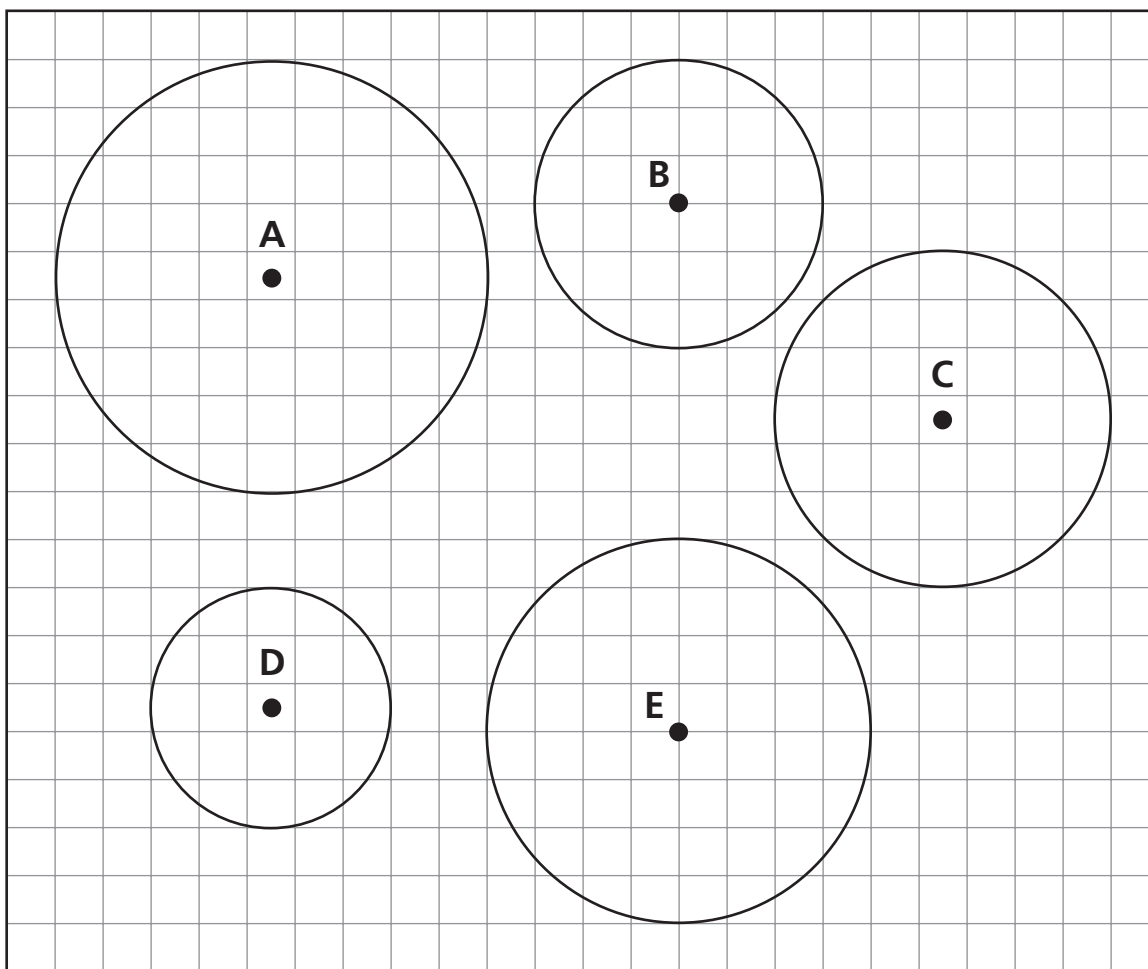
	A	B	C	D	E
Diameter					
Circumference					

Measuring Paths

N●

M●

O●

Q●

P●

❶ Measure path **MNOPQ** to the nearest $\frac{1}{4}$ inch.

_____

_____

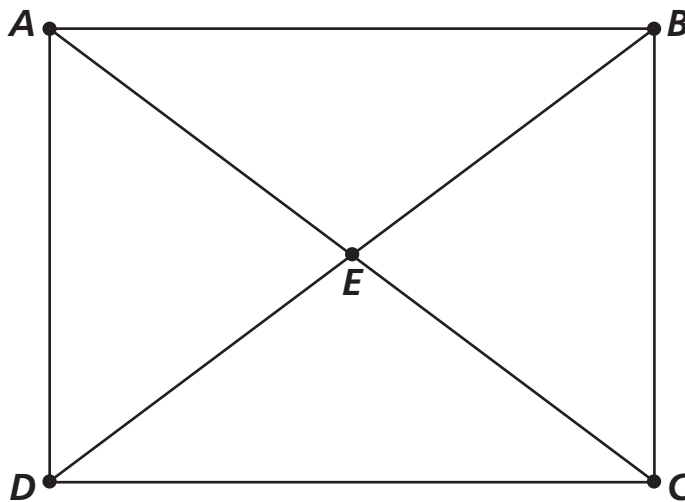❷ Measure path **MPNOQ** to the nearest $\frac{1}{4}$ inch.

_____

_____

❸ Measure path **MONPQ** to the nearest $\frac{1}{4}$ inch.

_____

_____

❹ Find and measure another path from **M** to **Q** that touches **N, O,** and **P.**

Measuring in Centimeters

1 Measure each segment to the nearest centimeter.

$\overline{AB}$: _____ cm $\overline{BC}$: _____ cm $\overline{CD}$: _____ cm

$\overline{AC}$: _____ cm $\overline{BD}$: _____ cm $\overline{CE}$: _____ cm

$\overline{AD}$: _____ cm $\overline{BE}$: _____ cm $\overline{DE}$: _____ cm

$\overline{AE}$: _____ cm

---

2 Measure the path **AEDAB** to the nearest centimeter.

_____ cm

---

3 Find a path along the segments in the picture that starts at **A** and ends at **B** and is . . .

A . . . about **28** cm long. _____

B . . . about **36** cm long. _____

Area and Perimeter

For each problem, draw along the lines to make a figure that has the area (A) and perimeter (P) shown.

①

②

③

④

A: 4 sq cm

P: 10 cm

A: 5 sq cm

P: 10 cm

A: 6 sq cm

P: 10 cm

A: 5 sq cm

P: 12 cm

⑤

⑥

⑦

A: 9 sq cm

P: 12 cm

A: 8 sq cm

P: 12 cm

A: 6 sq cm

P: 12 cm

More Area and Perimeter

Draw a figure along the lines with the smallest possible perimeter for each area.

1

A: 4 sq cm

P: _____ cm

2

A: 5 sq cm

P: _____ cm

3

A: 6 sq cm

P: _____ cm

4

A: 7 sq cm

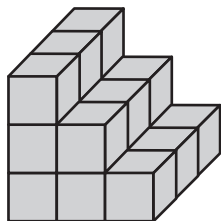**P:** _____ cm

5

A: 8 sq cm

P: _____ cm

6

A: 9 sq cm

P: _____ cm

Measuring Volume

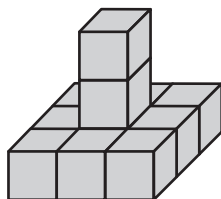**Each problem shows a picture of a model made from centimeter cubes. Build the model and find its volume.**
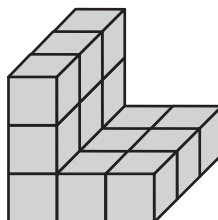
1

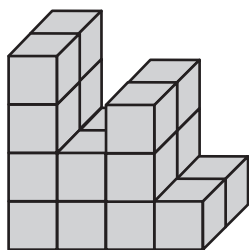**volume:** _____ cubic cm

2
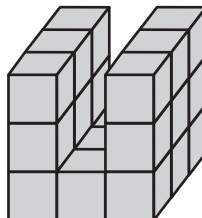
volume: _____ cubic cm

3

volume: _____ cubic cm

4

volume: _____ cubic cm

5

volume: _____ cubic cm

6

volume: _____ cubic cm