Name .

Degrees

Essential Question How are degrees related to fractional parts of a circle?

CONNECT You can use what you know about angles and fractional parts of a circle to understand angle measurement. Angles are measured in units called **degrees**. Think of a circle divided into 360 equal parts. An angle that turns through $\frac{1}{360}$ of the circle measures 1 degree.



Lesson 11.2



Math Idea The symbol for degrees is °.

Vullock the Problem (Real

The angle between two spokes on the bicycle wheel turns through $\frac{10}{360}$ of a circle. What is the measure of the angle formed between the spokes?

Example 1 Use fractional parts to find the

• What part of an angle does a spoke represent?

angle measure.



The Penny Farthing bicycle was built in the 1800s.



Try This! Find the measure of a straight angle.



O Houghton Mifflin Harcourt Publishing Company

Lesson Check (4.MD.C.5a, 4.MD.C.5b)

1. What kind of angle is shown?

2. How many degrees are in an angle that turns through $\frac{1}{4}$ of a circle?

Spiral Review (4.OA.A.3, 4.NF.B.3b, 4.NF.B.4a, 4.NF.C.5)

- 3. Mae bought 15 football cards and 18 baseball cards. She separated them into 3 equal groups. How many sports cards are in each group?
- 4. Each part of a race is $\frac{1}{10}$ mile long. Marsha finished 5 parts of the race. How far did Marsha race?

- **5.** Jeff said his city got $\frac{11}{3}$ inches of snow. Write this fraction as a mixed number.
- **6.** Amy ran $\frac{3}{4}$ mile. Write the distance Amy ran as a decimal.

