Geometry

10.2 Find Arc Measures

circle

360°

* There are \_\_\_\_\_\_\_ in a complete \_\_\_\_\_\_\_\_\_.

circle

center

vertex

* Central Angle – Angle whose \_\_\_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_

# Arcs

circle

arc

* + An \_\_\_\_\_\_\_ is a portion of a \_\_\_\_\_\_\_\_\_\_\_ (curved line)

two

circle

* + A central angle cuts a \_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_ arcs

central

measures

* + Measures of arcs are the \_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_ angles

Minor arc

\_\_\_\_\_\_\_\_\_\_\_\_\_

smaller

* + Minor arc – \_\_\_\_\_\_\_\_\_\_\_ of the two arcs

bigger

* + Major arc – \_\_\_\_\_\_\_\_\_\_\_ of the two arcs
  + Named \_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_

minor

two

* + - use \_\_\_\_\_\_\_\_ endpoints to identify \_\_\_\_\_\_\_ arc

major

three

* + - use \_\_\_\_\_\_\_\_ letters to identify \_\_\_\_\_\_\_\_ arc

180°

* Semicircle – arc if the central angle is \_\_\_\_\_\_\_

Major arc

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

similar

all

* Similar Circles – \_\_\_\_ circles are \_\_\_\_\_\_\_\_\_\_

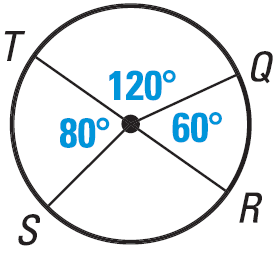
radius

* Congruent circles – same \_\_\_\_\_\_\_

measure

radius

* Congruent arcs – same \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

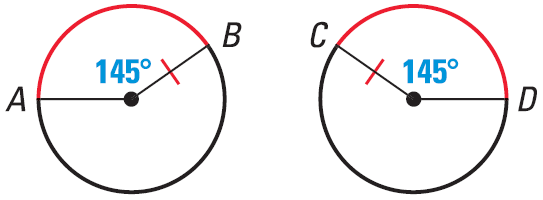
Identify as major arc, minor arc, or semicircle. Find the measure.

minor arc; 120°

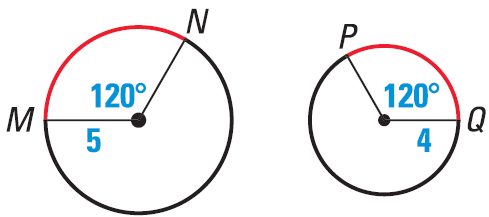
semicircle; 180°

major arc;

Tell whether the red arcs are congruent.



Yes, same radius and angle



No, different radius

Assignment: 661 #2-16 even, 20-24 even, 26-34 all = 20