Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Construct Circles

Transfer the supplied radius with a compass. For a diameter, construct its midpoint first.

Compass and straightedge workspace

1. **Construct the circle centered at C with radius equal to segment AB.**

WORKSPACE

2. **Construct the circle whose diameter is segment ST.**

WORKSPACE

3. **Construct the circle centered at U with radius equal to segment ST.**

WORKSPACE

4. **Construct the circle whose diameter is segment AB.**

WORKSPACE

Keep construction arcs visible. Do not measure with a ruler or protractor.

Math Sheet

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Construct Circles

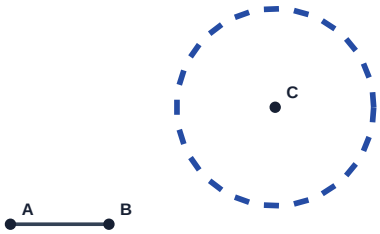
Construction Answer Key

Transfer the supplied radius with a compass. For a diameter, construct its midpoint first.

Solutions and compass marks

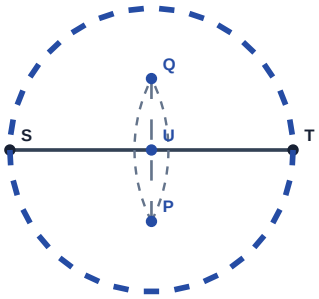
1. **Construct the circle centered at C with radius equal to segment AB.**

1. Set the compass opening exactly to AB.
2. Without changing it, place the compass point at C.
3. **Draw the complete circle centered at C.**



2. **Construct the circle whose diameter is segment ST.**

1. Draw equal-radius arcs from S and T using a radius longer than half ST.
2. Join intersections P and Q; label its crossing with ST as center U.
3. **Set the compass to US and draw the circle centered at U.**



Name _____ Score _____ Teacher _____ Date _____

Construct Circles

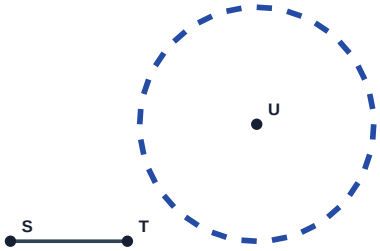
Construction Answer Key

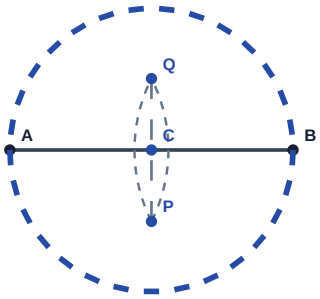
Transfer the supplied radius with a compass. For a diameter, construct its midpoint first.

Solutions and compass marks

3. **Construct the circle centered at U with radius equal to segment ST.**

1. Set the compass opening exactly to ST.
2. Without changing it, place the compass point at U.
3. **Draw the complete circle centered at U.**



4. **Construct the circle whose diameter is segment AB.**

1. Draw equal-radius arcs from A and B using a radius longer than half AB.
2. Join intersections P and Q; label its crossing with AB as center C.
3. **Set the compass to CA and draw the circle centered at C.**