Which two lines are parallel? *line NS and line HQ*
Which angles prove the lines are parallel? **<RNS & <PHQ**
What are those angles called? *Corresponding Angles*

Construct a parallel line ▼

Goal

Construct a line parallel to *L* that passes through *N*.

How?

Construction step

8. You're done! Verify that your construction is correct using the protractors.

Why?

✓ **Correct**

Reset

☐ Tools

R

N   S

P

H   Q   L

☐ Show ruler   ☐ Show angle measure tool
☐ Show ruler   ☐ Show angle measure tool

Transversal RH forms two congruent corresponding angles <RNS & <PHQ (same distance/width RS & PQ) to guarentee lines NS and HQ are parallel lines.

Tools

Construct a parallel line

Goal

Construct a line parallel to *L* that passes through *N*.

How?

Construction step

8. You're done! Verify that your construction is correct using the protractors.

Why?

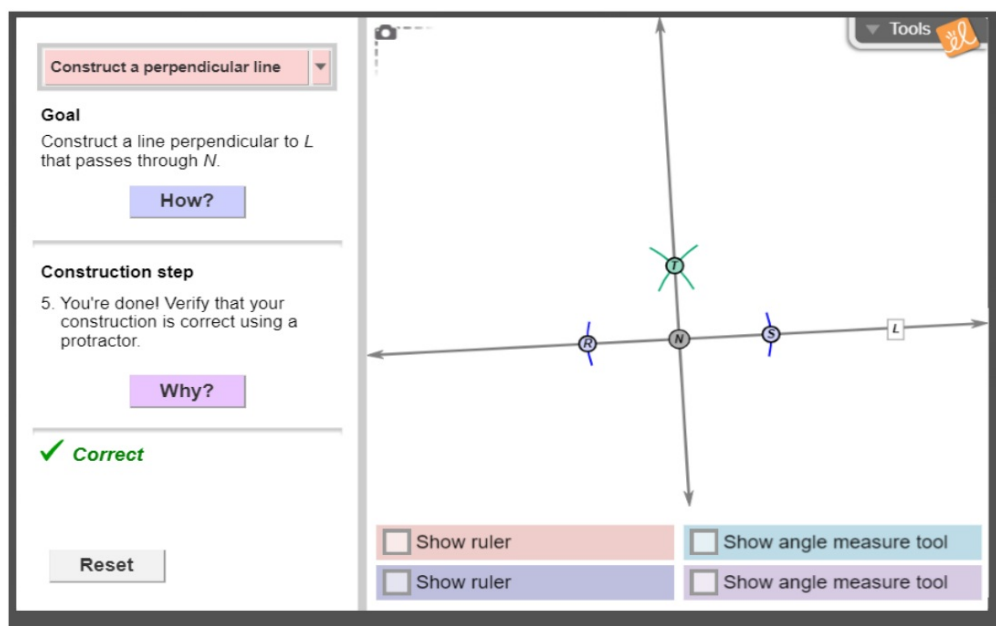✓ Correct

Reset

☑ Length: 16.85   ☑ Angle measure: 96.26°
☑ Length: 16.85   ☑ Angle measure: 96.26°

Which lines are perpendicular? Line RS and Line NT

What is the relationship between RT & ST? Congruent Line Segments

How does this guarantee the lines are perpendicular?

Distance is the same from point T, which is on the perpendicular bisector, to the endpoints R & S.

Any point on the perpendicular bisector (Line NT) is equidistant from the endpoints of the segment (Line RS)

Construct a perpendicular line ▼

Goal

Construct a line perpendicular to *L* that passes through *N*.

How?

Construction step

5. You're done! Verify that your construction is correct using a protractor.

Why?

✓ **Correct**

Reset

▼ Tools

T

R   *N*   *S*   *L*

☑ Length: 14.26   ☑ Angle measure: 90°
☑ Length: 14.26   ☑ Angle measure: 90°