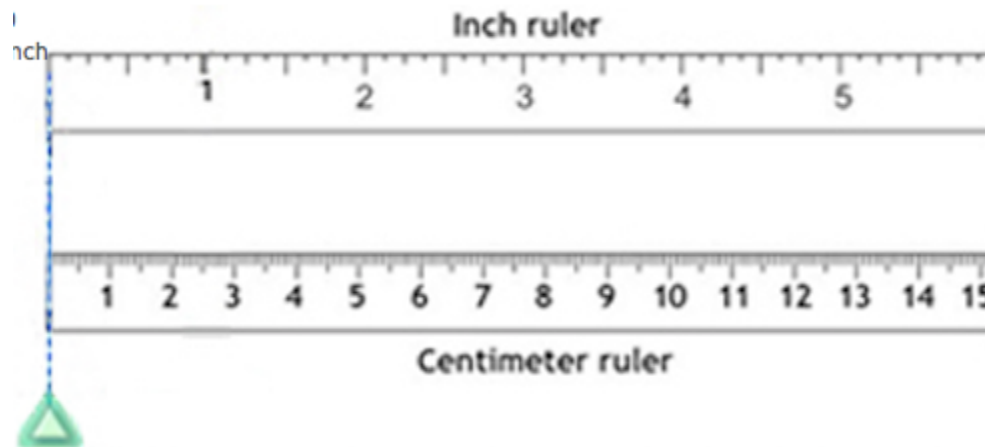


Grade 6 – Slider Ruler

Drag the slider to explore the relationship between the number of inches and the number of centimeters.



Select all of the statements that accurately represent the relationship between the number of inches and the number of centimeters.

- ☐ The ratio of centimeters to inches is 1 to 2.54.
- ☐ The ratio of centimeters to inches is 2.54 to 1.
- ☐ $i = 2.54c$, where i represents the number of inches and c represents the number of centimeters
- ☐ $c = 2.54i$, where i represents the number of inches and c represents the number of centimeters

Grade 6	Slider Ruler
Type	Type I, Claim A

Most relevant Standard(s) for Mathematical Content	The first cluster in 6.RP (“Understand ratio concepts and use ratio reasoning to solve problems”).
Most relevant Standard(s) for Mathematical Practice	MP.8 (Look for and express regularity in repeated reasoning) is the most relevant standard for mathematical practice for this task. Students can use the slider to generate repeated instances of the relationship and summarize the relationship by selecting the equation that captures it correctly.
Item description and assessment qualities	This task centers on conceptual understanding of ratios, an important subject that is first introduced in Grade 6 in the Standards. By requiring students to select an equation that captures the proportional relationship, the task also reflects the way the Standards connect rate reasoning to algebra. Unlike traditional multiple choice, it is difficult to guess the correct answer or use a choice elimination strategy. It is important to note that this task is an iteration of an earlier prototype version from the Dana Center.
Scoring	The second, fourth, and sixth boxes (and only these boxes) must be checked to earn full credit. Other patterns of responses could earn partial credit.