3 A desk has a true width of 50.0 cm.

Two students, X and Y, measure the width of the desk.

Student X uses a tape measure and records a width of (49.5 ± 0.5) cm.

Student Y uses a metre rule and records a width of (51.4 ± 0.1) cm.

Which statement about the measurement of student X is correct?

A It is less accurate and less precise than the measurement of student Y.

B It is less accurate but more precise than the measurement of student Y.

C It is more accurate and more precise than the measurement of student Y.

D It is more accurate but less precise than the measurement of student Y.