Problem of the Week

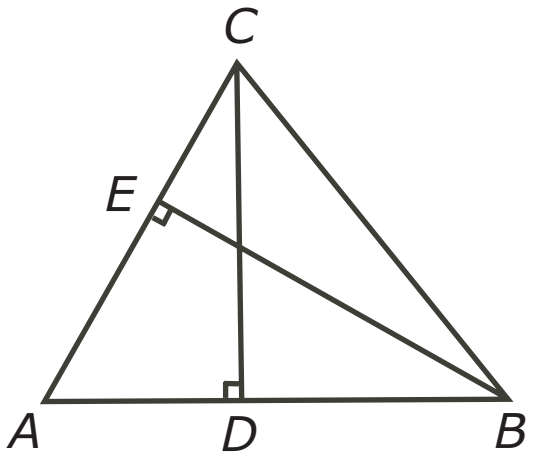
Problem C

New Heights (Revised)

An *altitude* is a line segment drawn from a vertex of a triangle to the opposite side or opposite side extended such that the line segment is perpendicular to the opposite side.

In $\triangle ABC$, CD is an altitude. $AB = 18$ cm, $AC = 20$ cm and $CD = 16$ cm.

An altitude is drawn from B to AC intersecting at E. Determine the length of BE.



Problem of the Week

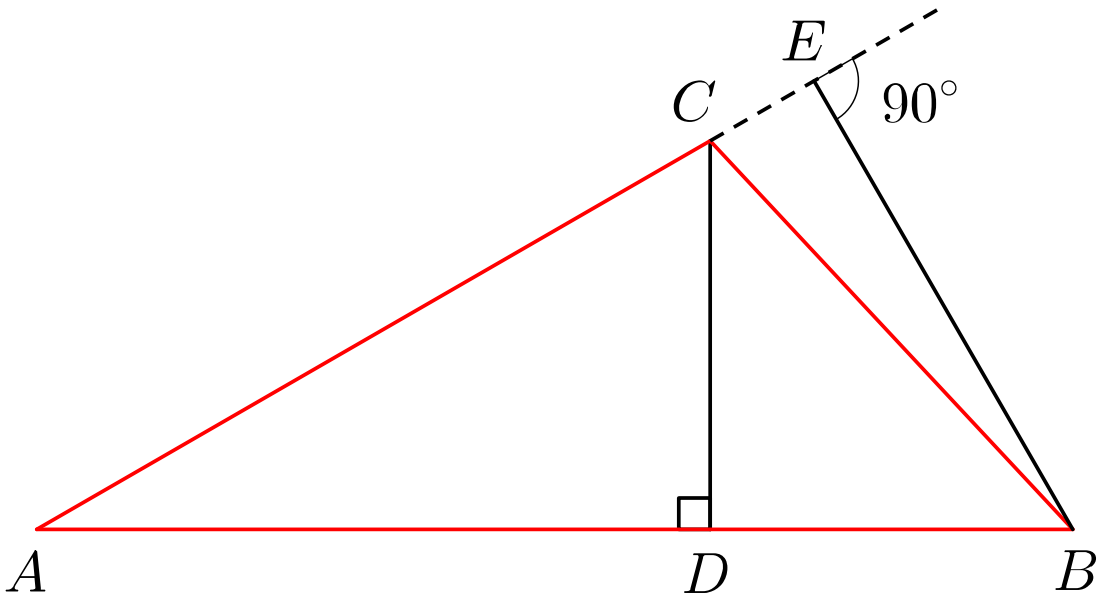
Problem C

New Heights (Original Problem)

An *altitude* is a line segment drawn from a vertex of a triangle to the opposite side or opposite side extended such that the line segment is perpendicular to the opposite side.

In $\triangle ABC$, CD is an altitude. $AB = 16$ cm, $AC = 12$ cm and $CD = 6$ cm.

An altitude is drawn from B to AC extended intersecting at E. Determine the length of BE.



Strands Measurement, Number Sense and Numeration, Patterning and Algebra