

- On a map, a 12-centimeter length represents 72 kilometers. How many kilometers does a 17-centimeter length represent?

(A) 6      (B) 102      (C) 204      (D) 864      (E) 1224

**2004 AMC 8, Problem #1**  
**“How many kilometers does 1 centimeter represent?”**

- **Solution**

(B) If 12 centimeters represents 72 kilometers, then 1 centimeter represents 6 kilometers. So 17 centimeters represents  $17 \times 6 = 102$  kilometers.

**Difficulty:** Easy

**NCTM Standard:** Measurement:

apply appropriate techniques, tools, and formulas to determine measurements

**Mathworld.com Classification:**

Number Theory > Arithmetic > Fractions > Directly Proportional