Visual Learning Animation

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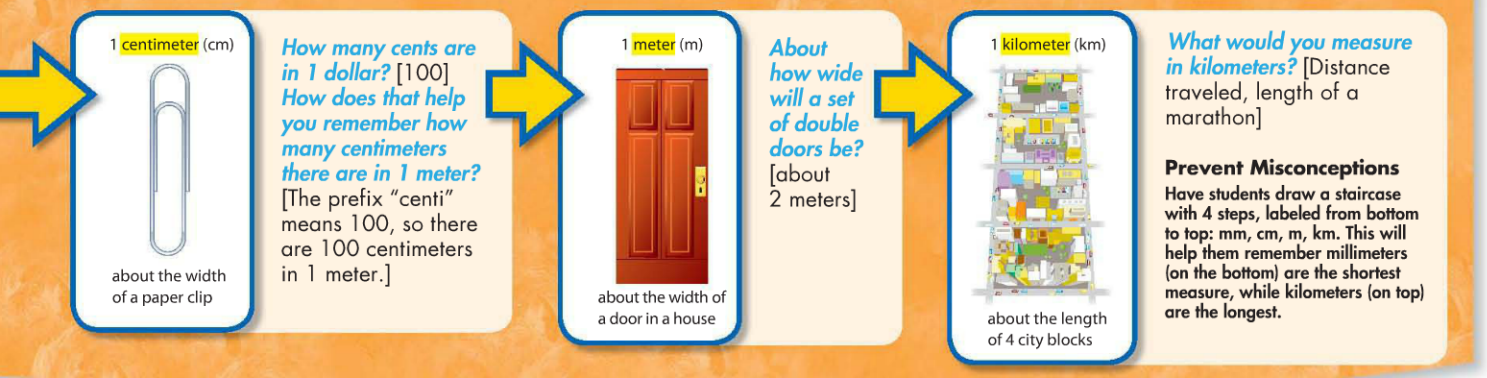
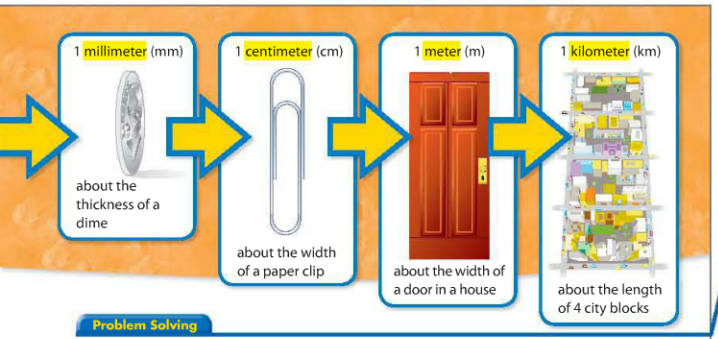


Prevent Misconceptions

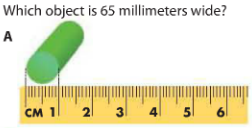
Have students draw a staircase with 4 steps, labeled from bottom to top: mm, cm, m, km. This will help them remember millimeters (on the bottom) are the shortest measure, while kilometers (on top) are the longest.



Problem Solving

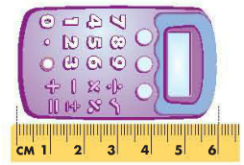
14. Which object is 65 millimeters wide?

A

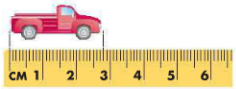


B

C



D



15. Writing to Explain Darcy is estimating how much fabric she will need to make a new jacket. Is estimating reasonable in this situation? Why or why not? See margin.

16. Dana ordered 1 medium cheese pizza with 8 slices. She ate 2 pieces. Write 2 equivalent fractions to show the part of the pizza Dana did NOT eat. $\frac{6}{8}, \frac{3}{4}$

17. Choose from the measures listed below to determine the most appropriate lengths.

40 mm	2 m
18 cm	200 km

a. The distance between two cities — 200 km
b. The length of a bicycle — 2 m
c. The length of a drinking straw — 18 cm
d. The length of a caterpillar — 40 mm

18. Reasoning If a measuring cup has $\frac{1}{4}$ cup milk in it, what fraction represents the amount of milk needed to finish filling the cup? $\frac{3}{4}$ cup

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Answer

15. Sample answer: Yes; She can estimate when buying an amount, and then find the exact measurements while making the jacket.

Problem Solving

Exercise	Content
14	Linear Measurement
15	Estimate Measurement Communicate Math Understanding
16	Equivalent Fractions ($\frac{6}{8}, \frac{3}{4}$)
17a 17b 17c 17d	Linear Measurement Linear Measurement Linear Measurement Linear Measurement
18	Subtract Fractions ($1 - \frac{1}{4}$) Use Logical Reasoning

Students use underlying processes and mathematical tools for Exercises 14–18. Remind students to check for reasonableness when solving each problem.

Exercise 14

Test-Taking Tip: Gather Information Encourage students to gather information from the pictures. *Which objects are 6 cm or longer?* [The eraser and the calculator]

Exercise 17

Problem-Solving Strategy: Use Reasoning

Encourage students to check answers for reasonableness. *Which item is the smallest?* [Caterpillar = 40 mm] *The smallest item is measured in millimeters. Now decide which item is the next smallest. That object is probably measured in centimeters.* [Straw = 18 cm] *Which object has the greatest length?* [Distance between two cities = 200 km] *Don't forget that you can use the Visual Learning Bridge to help decide which measurement is the most appropriate for each choice.*

Early Finishers *Henry says his ballpoint pen is 17 meters long. Explain whether this statement is reasonable.*