Solve the problems.

1 cm:8 m

1 cm: 20 m

2 cm : 24 m

d. 3 cm: 15 m

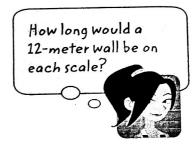
1 Sara uses a scale of 1 cm: 12 m to draw a floor plan of a new store. She has to redraw the drawing so that it is larger for her presentation. Could Sara use the following scales? Select Yes or No for each scale.

Yes

Yes

Yes

Yes



2 Gregory draws a scale drawing of his room. The scale that he uses is 1 cm: 4 ft. On this drawing, the room is 3 centimeters long. Which equation can be used to find the actual length of Gregory's room?

B $\frac{x}{4} = \frac{1}{3}$

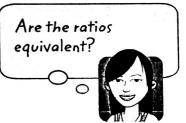
D $\frac{1}{x} = \frac{4}{3}$

Rob chose A as the correct answer. What did he do wrong?

How are the units related in the scale equation?



- 3 Jon planned a bicycle ride for several of his friends. On his map, 1 inch represents 2.5 miles of actual distance. Which statements are true? Select all that apply.
 - The scale of the map is 1 in.: 2.5 mi.
 - A distance of 50 miles on the ride is represented by 20 inches on the map.
 - C Every 20 miles of the ride is represented as 2.5 inches on the map.
 - **D** A distance of 5 inches on the map represents 15 miles on the ride.



Solve.

5 cm : 250	m. The height of the ers. How tall is the mo m C	model of a volcano is actual volcano is about odel? 5.3 m 26.5 m	How are equivalent ratios used to create scales?
piece of r 11 inches	otebook paper that long. She wants to u	cance of 400 miles on a is 8.5 inches wide and se a scale of 1 in. = 20 mi drawing? Why or why not	proviema
b. Give the f	an example of a scal form of 1 in. = ? mi fo	le that Petra could use. Us or the scale.	e
A science museum has a scale model of a ladybug. In the model, 50 centimeters represents 9 millimeters. The length of the model is 1 meter. How long is the actual ladybug? Show your work.			Write an equation to relate the ratios.
Solution	i:		

