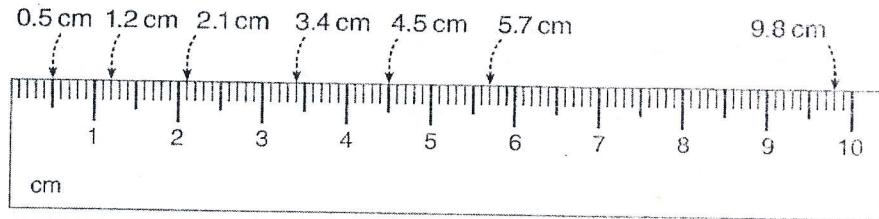


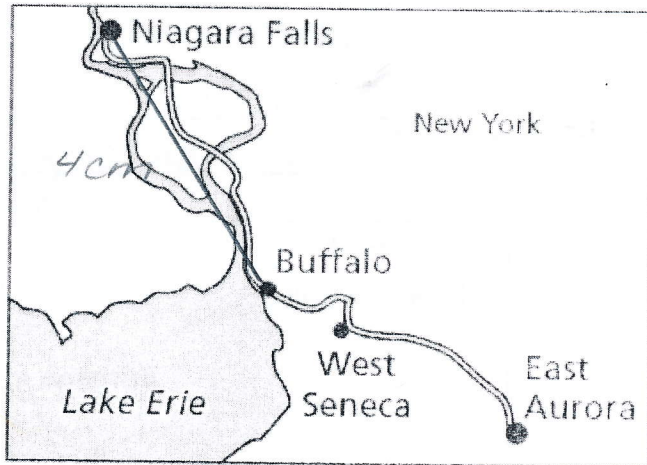
Notes: **PROPORTIONS in Real Life**
Created for you by Ms. Nho'subinh

Do you remember how to read a metric ruler?



Directions: Write a proportion to solve each question. You may use a calculator and ruler.

- Alana is planning a car trip from Niagara Falls to Buffalo. What is the approximate driving distance from Niagara Falls to Buffalo?



scale
 $\frac{1 \text{ cm}}{5 \text{ mi}} = \frac{4}{x}$

$x = 4(5)$
 $x = 20 \text{ miles}$

SCALE
1 cm = 5 miles

Niagara Falls is 20 miles away from Buffalo.

Name: Key
Math 7H - Dec. 4

Glue on page 45

2. Max and his wife, Gigi are traveling to Australia for a vacation. When they arrive Max decide to exchange their spending money into Australian dollars. If Max has \$2,410 US dollars, how much will he have in Australian dollars?

conversion
 1 US dollar = 1.37 Australian dollar

$$\frac{\$1 \text{ US}}{1.37 \text{ A.D.}} = \frac{\$2410}{x}$$

$$x = (1.37)(2410)$$

$$x = 3301.70 \text{ Australian dollars}$$

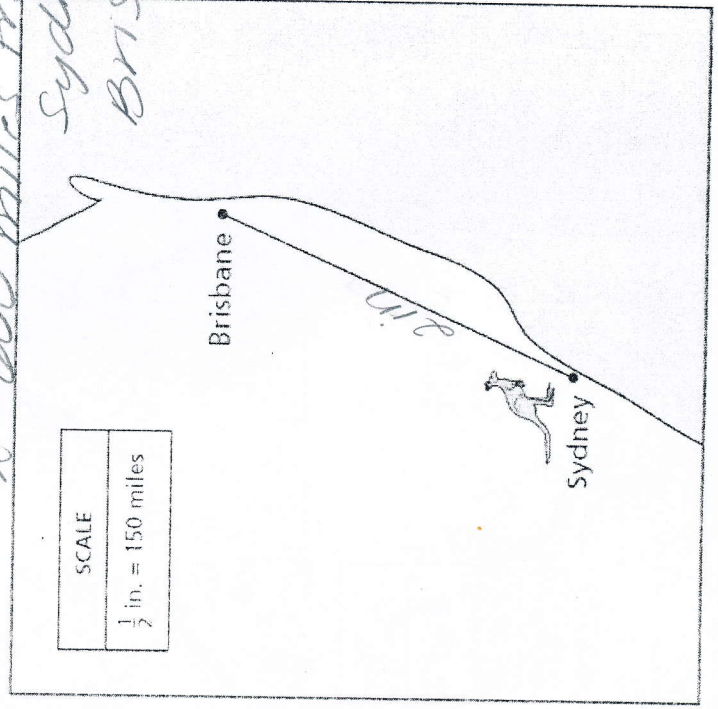
3. Max and Gigi are staying at the Rendezvous Hotel, and will need to take a train from Sydney to Brisbane. They are using the map shown. Determine the actual distance (in miles) from Sydney to Brisbane.

$$\frac{\frac{1}{2} \text{ in}}{150 \text{ mi}} = \frac{x}{26750}$$

$$\frac{1}{2} x = 26750$$

$$x = 53500$$

$x = 600$ miles from Sydney to Brisbane.



4. If the train ride was 8 hours, what was the average speed of the train?

$$\text{Rate}(\text{time}) = \frac{\text{Distance}}{\text{Time}}$$

$$x(\frac{\$}{\text{h}}) = \frac{600}{8}$$

$$x = 75 \text{ mph}$$

$$x = \frac{600}{8}$$

The train was averaging rate of 75 mph.

5. During their vacation, they spend most of their money at restaurants and shops. When they return home, Max still has 128.13 in Australian AD dollars. How much money will Max have when he exchanges it back for US dollars?

$$\frac{128.13 \text{ A.D.}}{x} = \frac{1.37}{\$/US}$$

$$\frac{1.37}{1.37} x = \frac{128.13}{1.37}$$

$$x = 93.53 \text{ US}$$

They will return home w/ \$93.53.