

Math 4. Equations 3. Homework.



Meters, kilometers, centimeters:

$$1 \text{ kilometer (km)} = 1000 \text{ meters (m)}$$

$$1 \text{ meter} = 100 \text{ centimeters (cm)}$$

$$1 \text{ hour (h)} = 60 \text{ minutes (min)}$$

$$1 \text{ minute (min)} = 60 \text{ seconds (s)}$$

1. Peter's speed is  $5\frac{1}{5} \frac{\text{km}}{\text{h}}$  (*kph*). How far will he go in
  - a. 2 hours
  - b.  $1\frac{1}{5}$  hour
  - c. 45 minutes
  - d. 125 minutes

(Represent the result in kilometers and meters, for example: 1km 250 m.)

2. A river flows at 3 km/h. It takes same amount of time for a boat to travel 16 miles downstream as to travel 10 miles upstream. What is the speed of the boat in still water?
3. In two rooms, there were 68 people. When 25 people left one room and 35 left the other, the number of people in the rooms remained equal. How many people were originally in each room?
4. A moving walkway at an airport moves at a pace of 0.55 meters per second. If Peter stands on the walkway as it moves, how long will it take to transport him 200 meters? If he walks on this walkway at a speed of 4 km/h, how long will it take him to get to the end of the 200-meter-long walkway?