## Using Decimals with Measuring Units



1. Write the distance shown on the number line both in meters and in kilometers (using decimals).



2. Fill in the missing parts. The number lines above can help.

<b>a.</b> $500 \text{ m} = \_\k \text{m}$	<b>b.</b> 900 m = km	<b>c.</b> m = 0.2 km
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3. Convert between the units. Use decimals when writing the distances in kilometers.

<b>a.</b> 0.6 km = r	m	<b>b.</b> 700 m =	km	<b>c.</b> 10.9 km =	m
1.1 km = r	m	1,800 m =	_km	24,600 m =	km

4. Julie lives 1.2 km away from a college she goes to. Her friend Amanda lives only 300 m from the college. They both walk from home to the college and back each day.

a. What distance does Amanda walk in one day, in kilometers?

**b.** How many more *kilometers* does Julie walk than Amanda in a day?

5. Jack ran 2,040 meters, and Andrew ran 2.4 km. Who ran a longer distance?

How much longer (in meters)?

## Sample worksheet from https://www.mathmammoth.com

<u>Weight</u>	<u>Volume</u>
1 kg is 1,000 g. If we divided that 1,000 g into ten parts, each part is 100 grams.	1 liter is 1,000 ml. I into ten parts, each j
So, <b>one-tenth</b> or <b>0.1</b> of a kilogram is <b>100 g</b> .	So, <b>0.1</b> L = 100 ml.

1 liter is 1,000 ml. If we divide that 1,000 ml into ten parts, each part is 100 ml.

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6. In (a) and (b), write the amount of liquid in milliliters and in liters. In (c) and (d), convert between the units. Use decimals when writing the amounts in liters.



7. Convert between kilograms and grams.

<b>a.</b> 600 g = kg	<b>b.</b> $0.2 \text{ kg} = \ \text{g}$	<b>c.</b> 20,500 g = kg
2,400 g = kg	0.8 kg = g	7.1 kg = g

8. You pour 0.3 L of juice out of a full 1-liter pitcher.

How much juice is left, in milliliters?

How much juice is left, in liters?

9. You have 8,500 ml of gasoline in a container. You pour gasoline out of that container into your lawn mower, which has a tank that holds 1.2 L. How much gasoline is left in the container now?



- 10. Jack's pet rabbit weighed 2.6 kg. Then it got sick and started losing weight at the rate of 50 g each day.
  - **a.** How much weight did the rabbit lose in a week? \_\_\_\_\_ g
  - **b.** What did the rabbit weigh after that? (Hint: use grams.)

## Sample worksheet from https://www.mathmammoth.com