

HANDOUT 1.5 B - MEASUREMENT CONVERSION CARDS

Distance

Miles/Kilometers

You and your friend decide to go for a bike ride in the city of Berlin. Determine how far you must go (approximately).

1. From your house to the Brandenburg Gate you must ride 5 miles. How many Kilometers is it?
2. Now you decide to leave the Brandenburg Gate and go over to the TV Tower. If it is 2.4 km, how far is it in miles?
3. You are on the observation deck of the tower and notice Kaiser Wilhelm Memorial Church in the distance. If it is 6 km away, how many miles is it?

Area

Square Miles/Square Meters

Acres/Hectares

1. You and your friend visit the Olympic Stadium built for the 1936 Summer Olympics. Its area is 7140 square meters. How many square feet is this?
2. You hear that the Reichstag covers 13,290 square meters. How many square feet is this?
3. Tempelhof Airport, once used by the Allies to deliver supplies to West Berlin during the Berlin Airlift, has now become a park. You and your friends would like to go rollerblading there. It's over 300 hectares. How many acres is this?

Length

Inches/Centimeters

Feet/Meters

Yards/Meters

1. Using inches, measure your left leg from your knee to your ankle. How long is it in inches? How long is it in centimeters?
2. How tall are you in feet/inches and in meters/centimeters?
3. A regulation size soccer field is 105 meters long and 68 meters wide. Write these dimensions in yards. Bonus: Calculate the soccer field in square meters and calculate it in square yards.

Weight

Ounce/Gram

Pound/Kilogram

1. If you buy 2 pounds of apples, about how many kilograms do you have?
2. You tell your mother that Gummi Bears produced in Germany are made with real fruit juice so she decides to let you buy half a pound. How many grams/kilograms did you buy?

Volume

Gallon/Liter

1. You decide that you are going to make milkshakes at your birthday party and need 3 gallons of milk. How many liters would that be?

Measurement Conversion Cards (Answers)

Distance

Miles/Kilometers

You and your friend decide to go for a bike ride in the city of Berlin. Determine how far you must go (approximately).

1. From your house to the Brandenburg Gate you must ride 5 miles. How many Kilometers is it? $5 \times 1.6 = 8\text{km}$
2. Now you decide to leave the Brandenburg Gate and go over to the TV Tower. If it is 2.4 km, how far is it in miles?
 $2.4 / 1.61 = 1.49 \text{ miles}$
3. You are on the observation deck of the tower and notice Kaiser Wilhelm Memorial Church in the distance. If it is 6 km away, how many miles is it? $6 / 1.61 = 3.73 \text{ miles}$

Area

Square Miles/Square Meters

Acres/Hectares

1. You and your friend visit the Olympic Stadium built for the 1936 Summer Olympics. Its area is 7140 square meters. How many square feet is this?
 $7140 \times 10.76 = 76,826.4 \text{ sq. ft}$
2. You hear that the Reichstag covers 13,290 square meters. How many square feet is this? $13,290 \times 10.76 = 143,000.4 \text{ sq. ft}$
3. Tempelhof Airport, once used by the Allies to deliver supplies to West Berlin during the Berlin Airlift, has now become a park. You and your friends would like to go rollerblading there. It's over 300 hectares. How many acres is this?
 $300 \times 2.47 = 741 \text{ acres}$

Length

Inches/Centimeters

Feet/Meters

Yards/Meters

1. Using inches, measure your left leg from your knee to your ankle. How long is it in inches? How long is it in centimeters?
2. How tall are you in feet/inches and in meters/centimeters?
3. A regulation size soccer field is 105 meters long and 68 meters wide. Write these dimensions in yards. Bonus: Calculate the soccer field in square meters and calculate it in square yards.
 $105 \times .9 = 94.5 \text{ yds long}$
 $68 \times .9 = 61.2 \text{ yds wide}$
 $105 \times 68 = 6,881 \text{ sq. meter}$
 $94.5 \times 61.2 = 5,783.4 \text{ sq. yds}$

Weight

Ounce/Gram

Pound/Kilogram

1. If you buy 2 pounds of apples, about how many kilograms do you have?
 $2 \times .45 = .90 \text{ kg}$
2. You tell your mother that Gummi Bears produced in Germany are made with real fruit juice so she decides to let you buy half a pound. How many grams / kilograms did you buy? $.5 \times .45 = .225 \text{ kg}$

Volume

Gallon/Liter

1. You decide that you are going to make milkshakes at your birthday party and need 3 gallons of milk. How many liters would that be? $3 \times 4.4 = 13.2 \text{ liters}$