

Grade 4th Math Worksheet 3: Measurement of length (Advanced Level)

Name: _____

Date: _____

Part 1: Conversion of Units

Instructions: Convert the following lengths. Show your work.

1. Convert **5 kilometers** into **meters**.
Answer: _____
 2. Convert **3.75 meters** into **centimeters**.
Answer: _____
 3. Convert **1200 millimeters** into **centimeters**.
Answer: _____
 4. Convert **6.5 meters** into **millimeters**.
Answer: _____
 5. Convert **2.8 kilometers** into **meters**.
Answer: _____
-

Part 2: Operations on Length (Addition and Subtraction)

Instructions: Solve the following problems.

1. Sarah has a piece of string that is **240 centimeters** long, and she buys another piece that is **180 centimeters** long. How long are both pieces of string together in **meters**?
Answer: _____

2. A football field is **110 meters** long, and a tennis court is **23 meters** long. What is the total length of both fields in **centimeters**?

Answer: _____

3. A train travels **700 meters** in **2 minutes**. How far will the train travel in **5 minutes**?

Answer: _____

4. The length of a swimming pool is **25 meters**. If you swim **15 meters** and then take a break, how many meters do you have left to swim?

Answer: _____

5. A piece of rope is **4.5 meters** long. If you cut off a **1.2 meter** piece, how much rope is left in **centimeters**?

Answer: _____

Part 3: Operations on Length (Multiplication and Division)

Instructions: Solve the following problems.

1. A ribbon is **2.5 meters** long. How many **centimeters** is that? If you cut it into **5 equal pieces**, how long is each piece in **centimeters**?

Answer: _____

2. A builder needs to measure a wall that is **3.2 meters** tall. If the builder places **4 tiles** vertically along the wall, how tall is each tile in **centimeters**?

Answer: _____

3. A marathon race is **42.195 kilometers** long. How many **meters** is the marathon?

Answer: _____

4. A pool is **15 meters** long. If you want to add tiles to the pool's length, and each tile is **25 centimeters** long, how many tiles do you need to cover the entire length of the pool?

Answer: _____

5. A garden is **6 meters** long, and you want to plant **3 rows** of flowers. How long is each row in **centimeters**?

Answer: _____

Part 4: Word Problems

Instructions: Read the following word problems and solve them.

1. A bus travels **45 kilometers** each day. How many **meters** does the bus travel in 3 days?
Answer: _____
 2. The length of a baseball bat is **1.2 meters**, and the length of a baseball glove is **0.5 meters**. How much longer is the bat than the glove in **centimeters**?
Answer: _____
 3. You want to build a fence around your garden. The length of the garden is **12 meters**, and the width is **8 meters**. What is the total perimeter of the garden in **meters**?
Hint: Perimeter = $2 \times (\text{length} + \text{width})$
Answer: _____
 4. A book is **250 millimeters** tall, and a pencil is **20 centimeters** long. How much taller is the book than the pencil in **millimeters**?
Answer: _____
 5. A race track is **5000 meters** long. If a runner completes **7 laps**, how many **kilometers** does the runner run in total?
Answer: _____
-

Part 5: True or False

Instructions: Write **True** or **False** next to each statement.

1. 1 kilometer = 1000 meters.

 2. 1 meter = 10 millimeters.

 3. A marathon race is **42 kilometers** long.

 4. 5000 millimeters is equal to **5 meters**.

 5. A typical pencil is usually about 100 millimeters long.

-

Bonus Question:

Instructions: Use your knowledge of measurements to answer this fun question.

You are building a **space station** that has three sections. The first section is **3.5 meters** long, the second section is **450 centimeters** long, and the third section is **5 meters** long. How long is the entire space station in **meters**?

Answer: _____

--BE THE CHAMPION!--