

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

Name: _____

Date: _____

Part 1: Conversion of Units

Instructions: Convert the following lengths. Show all your work.

1. **Convert** 4.5 kilometers into **meters**.
Answer: _____
 2. **Convert** 375 centimeters into **meters**.
Answer: _____
 3. **Convert** 12000 millimeters into **meters**.
Answer: _____
 4. **Convert** 2.7 kilometers into **centimeters**.
Answer: _____
 5. **Convert** 1.3 meters into **millimeters**.
Answer: _____
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Part 2: Operations on Length (Addition and Subtraction)

Instructions: Solve the following problems and show your work.

1. A hiker walks **2.4 kilometers** in the morning and **3.2 kilometers** in the afternoon. What is the total distance walked in **meters**?
Answer: _____

2. A rope is **5.5 meters** long. You cut off a piece that is **1.8 meters** long. How much rope is left in **centimeters**?
Answer: _____
 3. A bus travels **3250 meters** to reach the first stop and **1200 meters** to reach the second stop. What is the total distance the bus travels between both stops in **meters**?
Answer: _____
 4. A construction worker has a **3.5 meter** long plank of wood and cuts off a piece that is **80 centimeters** long. How much wood does he have left in **millimeters**?
Answer: _____
 5. A football field is **100 meters** long. After a game, **30 meters** of the field is marked off for a special event. How much of the field is still available for play in **meters**?
Answer: _____
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Part 3: Operations on Length (Multiplication and Division)

Instructions: Solve the following problems.

1. A ribbon is **3.2 meters** long. How many **centimeters** is that?
Answer: _____
 2. A container of fabric has **4.5 meters** of material. If the material is cut into pieces that are each **15 centimeters** long, how many pieces can be made?
Answer: _____
 3. A swimming pool is **12.5 meters** long. If each lap takes **200 meters**, how many laps would it take to swim the entire length of the pool?
Answer: _____
 4. A runner runs **8.75 kilometers** during a race. How many **meters** does the runner cover?
Answer: _____
 5. You have a rope that is **6.3 meters** long. If you divide it into **9 equal pieces**, how long is each piece in **centimeters**?
Answer: _____
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Part 4: Word Problems

Instructions: Read the following word problems and solve them.

1. A race track is **5 kilometers** long. A runner completes **4 laps** around the track. How many **meters** did the runner complete in total?

Answer: _____

2. The length of a pencil is **16 centimeters**, and the length of a pen is **20 centimeters**. What is the difference in their lengths in **millimeters**?

Answer: _____

3. A gardener plants a row of flowers that is **5 meters** long. He wants to plant **6 rows**. How long will the entire garden be in **centimeters**?

Answer: _____

4. The distance from your house to the park is **2.7 kilometers**. You walk **1.2 kilometers** to reach the park, and then walk **500 meters** to reach the playground. How much farther do you need to walk in **meters** to reach the playground?

Answer: _____

5. A swimming pool is **10 meters** long and **6 meters** wide. What is the **perimeter** of the pool in **meters**?

Hint: Perimeter = $2 \times (\text{length} + \text{width})$

Answer: _____

Part 5: True or False

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

1. 1 kilometer is equal to **1000 centimeters**.

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

3. 3000 millimeters is equal to **3 meters**.

4. 1 meter is shorter than **100 millimeters**.

5. A swimming pool that is 25 meters long is **2.5 kilometers** long.

Bonus Question:

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

You're building a **space tunnel** that connects two space stations. The length of the tunnel is **5.2 kilometers**. You need to calculate how many **millimeters** long the tunnel is.

Answer: _____

--BE THE CHAMPION!--