## Grade 5 Unit 6

Lesson 5
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## Unit 6 Lesson 5: Multi-step Conversion Problems: Metric Length

## WU True or False: Powers of 10 (Warm up)

## Student Task Statement

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $5,423 \times 10=50,423$
- $5,423 \div 10=542.3$
- $5,423 \div 100=54.23$


## 1 Walk All Day

## Student Task Statement

Lin has a watch that counts the number of steps she takes during the day and displays those steps in centimeters, meters, or kilometers.

1. Here is a list of activities Lin did on Monday. Next to each activity, write whether it would make sense to display the distance in $\mathrm{cm}, \mathrm{m}$, or km .

- walked to her friend's desk
- walked to the front of the classroom
- walked from her classroom to the bus
- ran twice around the playground

2. The table shows the amount of steps Lin's watch displayed for each activity. If each of her steps is 50 centimeters, how many centimeters and meters did Lin walk for each activity?

| activity | number of steps | distance (cm) | distance (m) |
| :---: | :---: | :---: | :---: |
| walked to her friend's desk | 5 |  |  |
| walked to the front of the classroom | 12 |  |  |
| walked from her classroom to the bus | 250 |  |  |


| activity | number of steps | distance (cm) | distance (m) |
| :---: | :---: | :---: | :---: |
| ran twice around the playground | 1,000 |  |  |

3. At the end of the day, Lin's watch displayed 8,500 steps. Would it make sense for her watch to record the distance in centimeters, meters, or kilometers? Why?
4. How many kilometers did Lin walk that day?


## 2 Who Ran Farther?

## Student Task Statement

1. Use the table to find the total distance Tyler ran during the week. Explain or show your reasoning.

| day | distance (km) |
| :---: | :---: |
| Monday | 8.5 |
| Tuesday | 6.25 |
| Wednesday | 10.3 |
| Thursday | 5.75 |
| Friday | 9.25 |

2. Use the table to find the total distance Clare ran during the week. Show your reasoning.

| day | distance (m) |
| :---: | :---: |
| Monday | 5,400 |
| Tuesday | 7,500 |


| day | distance (m) |
| :---: | :---: |
| Wednesday | 8,250 |
| Thursday | 6,750 |
| Friday | 7,250 |

3. Who ran farther, Clare or Tyler? How much farther? Explain or show your reasoning.
