LESSON MAKER PRO

# Measure It Out

*Use units, time, and data to solve real problems.*

**GRADE 5 · 5.MDR.7**

**5.MDR.7** "Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions."

NAME _____ DATE _____

## PLAN YOUR STEPS

Choose the unit that matches the question, then use a conversion fact when you need to change units. To find elapsed time, count forward from the start time to the end time. When you read a data display, check the title, labels, and values before you compare amounts.

## WORKED EXAMPLE

The clock shows 7:13. What time will it be 16 minutes later?



1. Start at 7:13.
2. Add 16 minutes: 13 + 16 = 29 minutes.
3. The hour stays 7, so the time is 7:29.

**Answer: 7:29**

## PRACTICE 6 problems

**1** The clock shows 8:35. What time will it be 50 minutes later?



**ANSWER** _____

**2** A jump rope is 6 feet long. How many inches long is it?

**ANSWER** _____

**3** A fish tank holds 4 liters of water. How many milliliters is that?

**ANSWER** _____

**4** A poster is 36 inches wide. How many feet wide is it?

**ANSWER** _____

**5** A movie lasts 2 hours 30 minutes. How many minutes does it last?

**ANSWER** _____

**6** A water cooler has 750 mL of water. How many more milliliters are needed to make 1 liter?

**ANSWER** _____

## APPLY IT Show your work

**1** Use the table. At the student council movie night, how many more popcorn tickets were sold than fruit cup tickets?

**MOVIE NIGHT SNACK TICKETS**

| Snack | Tickets |
|---|---|
| Popcorn | 48 |
| Pretzels | 36 |
| Fruit cups | 24 |
| Cheese crackers | 30 |

**ANSWER** _____

**2** Jordan has run 1,250 meters of a 2 kilometer fun-run course. How many meters does Jordan have left to run?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A robotics club meets from 4:18 p.m. to 6:03 p.m. The meeting includes a 22-minute snack break. How many minutes do club members spend building robots? Explain how you found your answer.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Measure It Out

**GRADE 5 · 5.MDR.7**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | The clock shows 8:35. What time will it be 50 minutes later? | **9:25** |
| 2 | A jump rope is 6 feet long. How many inches long is it? | **72 inches** |
| 3 | A fish tank holds 4 liters of water. How many milliliters is that? | **4,000 mL** |
| 4 | A poster is 36 inches wide. How many feet wide is it? | **3 feet** |
| 5 | A movie lasts 2 hours 30 minutes. How many minutes does it last? | **150 minutes** |
| 6 | A water cooler has 750 mL of water. How many more milliliters are needed to make 1 liter? | **250 mL** |

## PART 2 · APPLY IT

1. **24 tickets** Subtract the fruit cup tickets from the popcorn tickets: 48 - 24 = 24.
2. **750 meters** Change 2 kilometers to 2,000 meters. Then subtract: 2,000 - 1,250 = 750.

## CHALLENGE

**83 minutes. The meeting lasts 105 minutes, and 105 - 22 = 83 minutes.**

Accept commas or no commas in whole-number answers. For the challenge, accept any clear explanation that finds 105 total minutes and subtracts the 22-minute break.