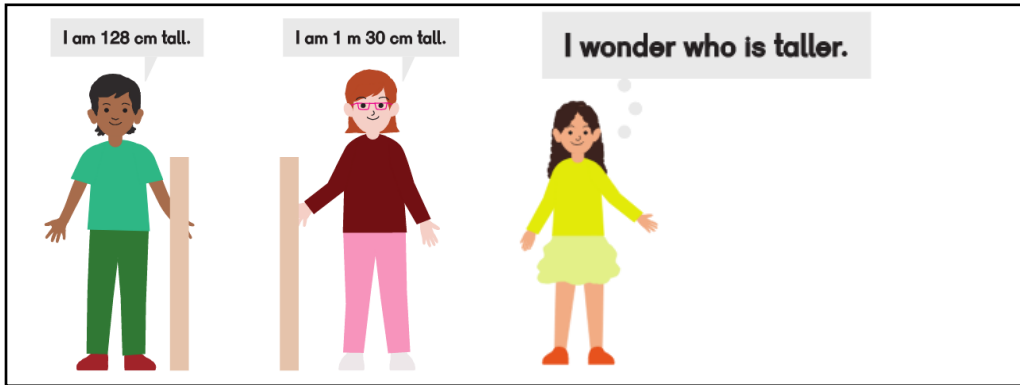


Dimensions Math
Grade 3 Letter Home
Chapter 11 Measurement

Home Connection

In this chapter, your child will build on their knowledge of standard units (e.g. centimeter, meter, inch, foot, gram, kilogram, pound and liter) and be introduced to compound units (e.g. 4 m 30 cm) and convert between compound units and base units (e.g. 4 m 30 cm = 430 cm).



Your child will solve calculation and word problems that build in complexity. These problems allow your child to practice and apply the mental math strategies from previous lessons.

Kona drove from her house to the post office and then to the hospital. She drove a total distance of 2 km. How far is the hospital from the post office?

750 m

?

Kona's house Post office Hospital

2 km

$2 \text{ km} - 750 \text{ m}$
 $1 \text{ km} \quad 1,000 \text{ m}$

1,000 m $\xrightarrow{-750 \text{ m}}$ 250 m $\xrightarrow{+1 \text{ km}}$ 1 km 250 m

Compound units in the metric system reinforce the base-ten place value system
 Length:

Write 2 L 50 mL in milliliters. $2,000 \text{ mL} + 50 \text{ mL} = ? \text{ mL}$

2 L 50 mL = 2,050 mL

What can we do at home?

- Have fun measuring various objects in your home. Use a ruler or yardstick to measure your height, the size of the refrigerator, or the width of the doorway. Then compare to see which is longer.
- Quantitative/measurement sense is developed through hands-on activities with containers and water. Using a variety of containers, have your child fill them with water and then pour the water into 1- or 2-liter containers for comparison.
- **Practice addition and subtraction facts** with this card game:

Last Out

Materials: deck of playing cards with the face cards removed

- This game can be played with 2 to 5 players
- Deal each player 5 cards. Flip the top card face-up to start the pile.
 - Red cards are subtraction cards
 - Black cards are addition cards
- Player One lays down a card and adds or subtracts that number on their card. They then draw another card.
- Player Two lays down a card and adds or subtracts that number on their card. They then draw another card.
- Play continues but may not go above the number 30 or below zero. If a player cannot play any card in their hand, they are out. The last player to go out, wins.

For Example:

- The start card is 5.
- Player One lays down a black 8, they say 5 plus 8 is 13.
- Player Two lays a black 10 and say 13 plus 10 is 23.
- Player three lays a red 4 and says 23 minus 4 is 19.