Explain:

- If you know your own height you can always use it as a reference to estimate someone else's height.
- Starting with your own height, you can use your hands to measure the difference between you and the other person.

Demonstrate using your own height and hand measures to estimate the height of a volunteer, or, show students how to estimate **your** height if they know their own.

This involves adding the extra centimetres if the person is taller than you, or subtracting them if the other person is shorter.

Explain:

Everyone should now practice estimating the heights of a least two other people.

When they have done this get them to check their estinates will a tape measure

They should then record the height of each persor they measured and proctice, either in writing or orally, describing heights using a rms such as:

'Armindo is 161 cm tall.' 'Elisa's height is 151 cm.

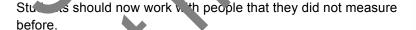
How much taller?

Ask for two volunteers of uiffer at neights to come to the front

Indicate the differer se extra sentimetres) between them.

Explain:

- We call this i. difference between their heights.
- We foull by that Elisa is 10 cm ho, or than Ahmindo Or Ahr ind is 10 cm taller than Elisa.



Explain:

- Now estimate the difference between your height and the other person's using your half in asures.
- Man up sentences to describe this.

I r example:

- a is approximately 12 cm taller than Aaron
- Aa. n is about 12 cm shorter than Sonia.
- The difference between Sonia's height and Aaron's height is 12 cm.





Extension for subtraction practice

Ask students to record all of their heights in a table on the board.

Demonstrate how the difference in height can be calculated using subtraction. Use your own height and one or two of the students' heights to model the process.

Ask students to select at least 5 other students and **calculate** the difference in their heights by subtracting.

Steps to follow this could include:

Students should be encouraged to check all of their subtractions using addition.

- Describe these differences using the language models used before.
- Use tape measures to check the calculations of height difference.

Extension for language and estimating at home

Ask students to describe themselves and their heights in relation to their height ymembers, housemates or a group of friends. Estimate how much taller/shorts they are than the other people and write three or more entences to describe to m.

Follow up

Other length/distance comparise is

Select several lengths or distances in the room or building and go through a similar set of steps, this time using land uage such as: shorter/longer than, widest/narrowest, further than/closer to etc.

For weight comparisons

Use a collection of objects of diverse winghts and a set of scales. Encourage students to est nate and weigh the objects calculate difference and write statements. Language out I include: heavier lighter, lightest, etc

For you me/capacity contrarisons

Use a collection of containers fiars, cups, bottles, spoons) and various sized measuring jugs, cup, and medicine glasses. Students could order the containers according to size a practice language such as third smallest/biggest etc, before measuring the volumes and calculating and describing differences between them. Language could include; holds more/less than, has a bigger/smaller volume/capacity than, etc.

