

## At-Home Investigation

*Come up with a plan to divide your metre strip into smaller sections. You will eventually need to show each centimetre, but start by thinking about the line as representing 100 centimetres. Where might 50cm go? How about 25cm and 75cm?*

**My plan:** answer these questions

- What could I do to accurately mark the 50, 25 and 75cm positions without using a ruler or measuring tape?
  
- How will I make sure that my numbers are accurate?

**Carry out my plan:** follow these steps and answer the questions

- Try out your idea. Did it work? Is it accurate enough?
  
- Use a ruler or measuring tape to check how close you were. Mark on the correct position (you might need to use the other side of the paper strip). How many 50s make up 100? How many 25s make up 100? How does this relate to your folding?

**Apply your learning:** follow this step

Check where 23cm is on your ruler and compare it with your strip. Add in numbers for each 10cm and lines for each centimetre to make sure that you can accurately use your strip as a measuring tool for tomorrow.

### At-Home Investigation

*Come up with a plan to compare the length of your bedroom, lounge room and kitchen, then order them from the shortest to the longest room.*

**My plan:** answer these questions

- Look at the lengths that you will have to measure for each room. What problems can you see? Come up with a plan for measuring the length of each room without having to move your furniture.
  
- How will I make sure that I am measuring accurately when there is furniture in the way? What would happen if I didn't measure straight along?

**Carry out my plan:** follow these steps and answer the questions

- Measure each room. Explain how you did it in the space below and give the final measurement for each.

**Apply your learning:** follow this step and answer the question

Write the rooms in order from the shortest to the longest.

- How much longer is the longest room than the shortest room? How do you know?

*Parent comment:*

## E5. Measure and estimate length in centimetres

Sometimes we need to guess how long something is so that we know if our measurement is about right. Discuss these questions with a friend and then make the measurements using centimetres.

For measuring the distance around your head:

1. What instruments could you use to measure it? How could you use the instrument to measure it?

---

---

2. Have a guess: what do you think the distance will be?

3. Choose an instrument and measure it. What did you get? How good was your guess?

---

---

For measuring the length, width and height of your desk:

1. What instruments could you use to measure it? How could you use the instrument to measure it?

---

---

2. Have a guess: what do you think the distance will be?

3. Choose an instrument and measure it. What did you get? How good was your guess?

---

---

Did you measure curved things differently to straight things? Explain how:

### **BACKWARDS QUESTION:**

If the distance around a square measured 40cm, how long would one of the sides be? Explain your answer:

## Interleaved practise

Number:

1. Starting at 103, count in 2s until you get past 120.
2.  $426 + \underline{\quad} = 483$
3. Read this number and say it: 3 748. Write it in words. How many thousands, hundreds, tens and ones does it have?
4. Find two ways that you can make \$2.00 using coins and draw them here.
5. Share 24 counters equally to show halves, then quarters, then eighths. Draw it.

Measurement/Geometry:

6. Find 4 objects. Order them from lightest to heaviest. Write them here.
7. What time is it?
8. Draw three different triangles. One of them has to have three different length sides.

Chance/Data:

9. What could the weather be like tomorrow? List as many possibilities as you can. Which is most likely?

## E3. Estimating length, mass, area, volume

Many years ago, people used to measure things with their bodies and familiar objects. Examine the examples to see how you can use objects to estimate.

### Length estimations:

1. About how long is your arm span with both arms stretched out horizontally, finger tip to finger tip?
  - When might you use this for estimating?
  
2. About how wide is your hand span when stretched out from thumb to little finger?
  - When might you use this for estimating?
  
3. About how wide is one of your fingers?
  - When might you use this for estimating?
  
4. About how wide is your hand when your fingers are not spread out?
  - When might you use this for estimating?
  
5. About how long is your foot?
  - When might you use this for estimating?
  
6. About how long is your stride? (Average step that you take)
  - When might you use this for estimating?
  
7. About how long is the distance from your elbow to finger tip?
  - When might you use this for estimating?