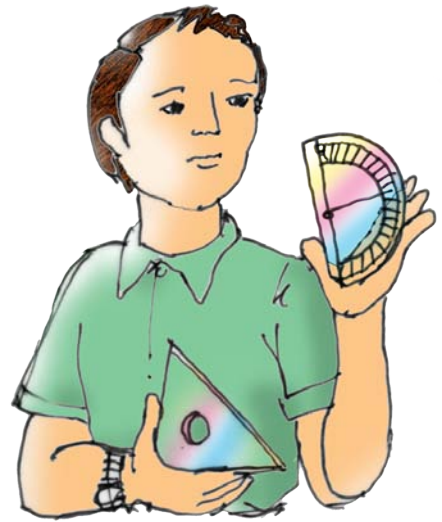# What's in a quadrilateral?

What are you trying to do?

- Estimate then measure the lengths of the sides & diagonals of a quadrilateral
- Estimate then measure each angle in a quadrilateral
- Use scale measurements

What will you need?
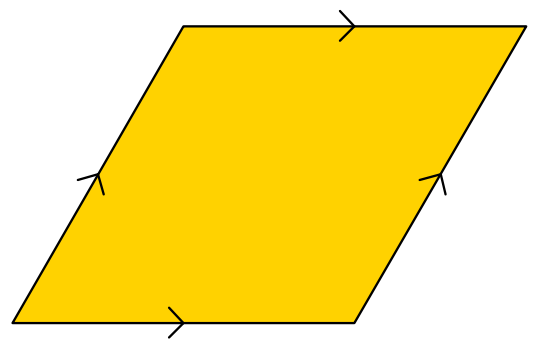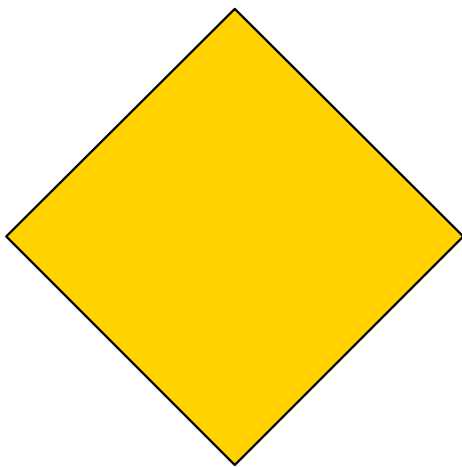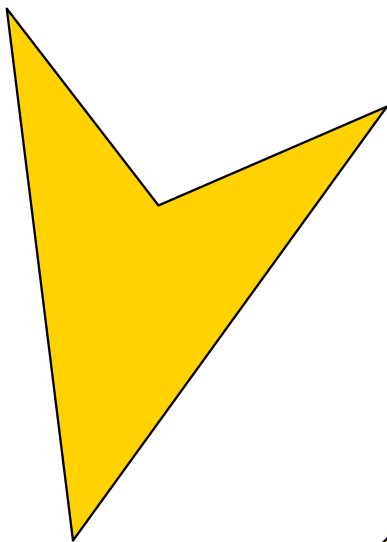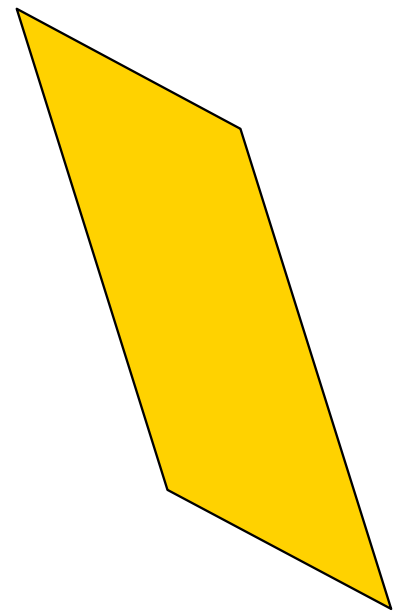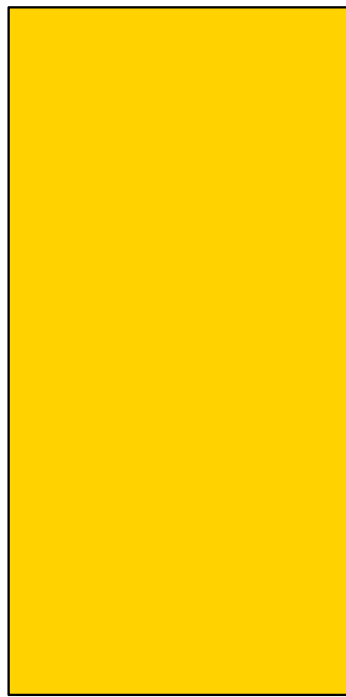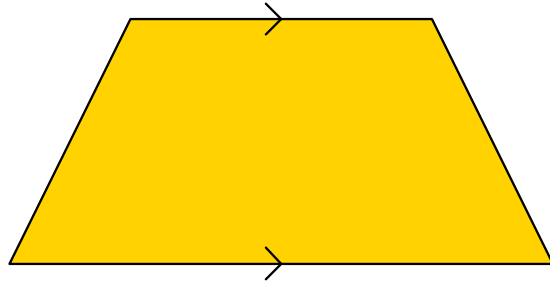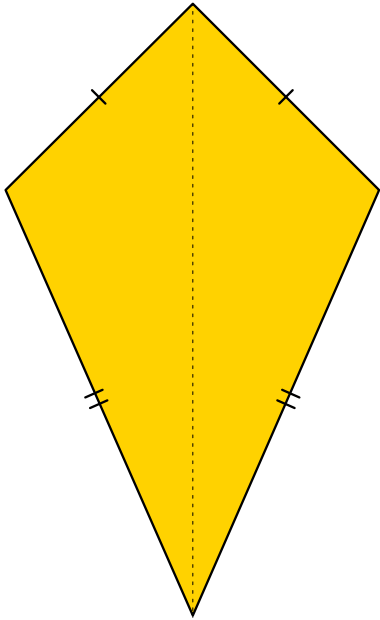
- Quadrilaterals poster
- Rulers
- Protractors

What do you do?

- Look at each of the **2D Shapes** on this poster. Where will you see these shapes in your daily life? Where might you see them when shopping? On a beach? At a farm?
- What is the same about each shape? What is different?
- Select one shape. With a partner, **estimate** the **length of each side**. Check your estimates.
- Estimate the length of each **diagonal**. Check your estimates
- What is the length of the **perimeter**?
- What if these lengths are to **scale** where 1 cm = 1 m. What would each side represent in real-life? What real-life object might have this shape and size?
- If you build a fence around the perimeter of this larger shape, how much fencing will you need?

- Estimate the size of each **angle** in your shape. Check your estimates with a **protractor**.
- What is the **angle sum** when you add up all the 4 angles inside your 2D shape?
- What happens to these angles in the **enlarged** shape where 1 cm = 1 m?

Variation

- Repeat for each of the other **2D quadrilaterals**.
- What are some general statements you can make about quadrilaterals?
- Repeat using the shapes on the Kite Poster.

Quadrilaterals