Find the area of each trapezoid by duplicating it, composing a parallelogram, finding the area of the parallelogram, and use it to find the area of the trapezoid.

Show all these steps.

1. The top is 8 in. The bottom is 5 in. The height is 4 in. Label them.

Show duplication and composition

Area of parallelogram:

(Show work.)

Area of trapezoid:

(Show work.)

*Can you think of a “shortcut” way to compute the area of a trapezoid?*

*(Without duplicating and recomposing into a parallelogram.)*

*Explain in words or use algebra.*

**Find the area of each of the following, either by using the formula or by decomposing/composing/recomposing. *You MUST show how you did this.***

Height is 10 in.

Draw and label it.

**2.**

12 in

**3.**

Height is 7cm.

Draw and label it.

25 cm

**4.**

5in

22 in