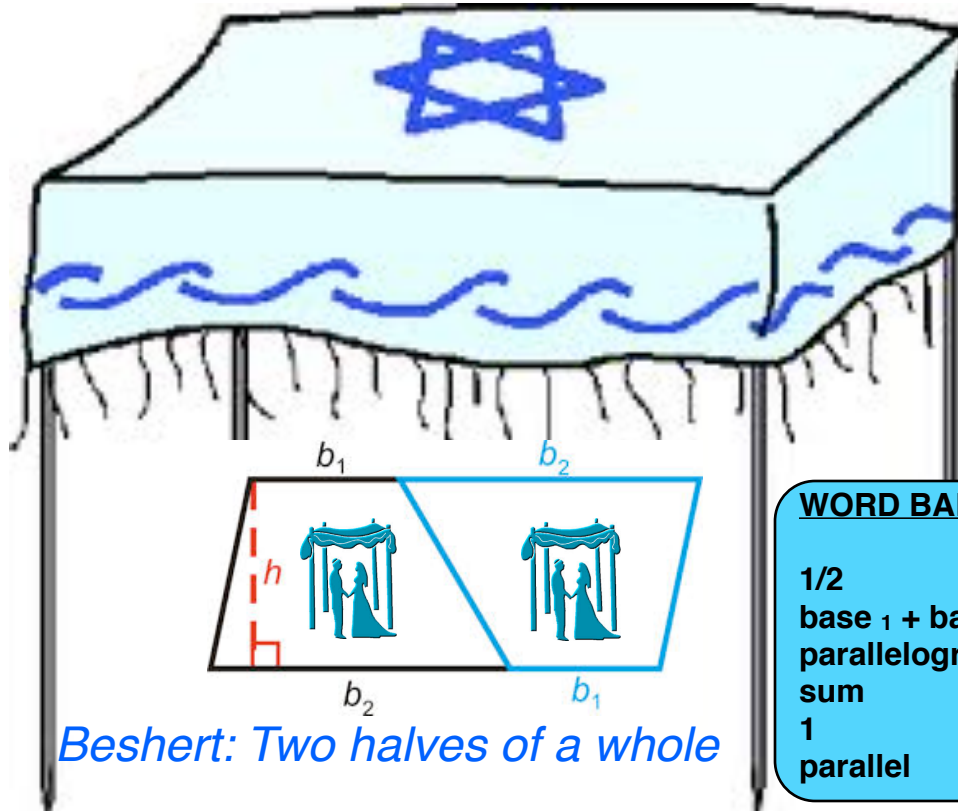


Find the Area of a Trapezoid by Composing a Parallelogram

Exit Ticket: Mazel Tov to Mr. & Mrs. Avromi Parallelogram-stein and Mr. & Mrs. Yaakov Parallelogram-berg on the marriage of their children, Yizchak *Trape* to Rivka *Zoid*



WORD BANK

1/2	base x height
base ₁ + base ₂	translated
parallelogram	congruent
sum	4
1	perpendicular
parallel	

DIRECTIONS: Choose a word from the above word bank to fill in the blanks below. Each word will be used, and used only once. Refer to the image under the Chuppah to help you.

What you knew: The formula for the area of a parallelogram is _____.

What you observed:

- A trapezoid is a ___ sided closed figure (quadrilateral) with only ___ pair of // sides.
- The bases of a trapezoid are the lengths of its _____ sides.
- The height of a trapezoid is the _____ distance between the bases.
- Two _____ trapezoids form (compose) 1 whole _____ when one of the trapezoids is rotated 180* (degrees) and _____.
- The base of the new parallelogram = the _____ of the bases of the two congruent trapezoids, written like this _____.
- Each congruent trapezoid occupies _____ the total area of the parallelogram.

What you learned: Therefore, the formula for the area of a trapezoid can be derived from the formula for the area of a parallelogram:

Area of a Trapezoid =

Write the formula: