Measurement

Activity 1 Assessment Areas of Parallelograms and Triangles

Measuring Area of Parallelograms and Triangles Partitions and rearranges a parallelogram to form Determines the area of a rectangle. Doubles a triangle to create a parallelogram (area of triangle is one-half that of parallelogram). a rectangle with the same base and height. "A rectangle is an array of squares. To find the area, I multiply the number of rows by the number Triangle A Parallelogram B of columns or use the formula $A = b \times h$. This rectangle has area 3 cm $5 \text{ cm} \times 3 \text{ cm} = 15 \text{ cm}^2$." 12 cm 3 cm "I rotated the triangle to make a parallelogram 12 cm with the same base and height. The area of the triangle is one-half the area of the parallelogram. "I partitioned the parallelogram Area of parallelogram: and moved the triangle to $15 \text{ cm} \times 4 \text{ cm} = 60 \text{ cm}^2$ create a rectangle. Area of triangle: $60 \text{ cm}^2 \div 2 = 30 \text{ cm}^2$ I then found the area of the rectangle: So, the formula for the area of a triangle is: $A = b \times h = 12 \text{ cm} \times 3 \text{ cm} = 36 \text{ cm}^2$. The area of the parallelogram is also 36 cm²." $A = b \times h \div 2$." **Observations/Documentation**

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Measuring Area of Parallelograms and Triangles (cont'd)

