Measurement

Activity 6 Assessment Exploring the Area of Rectangles

Estimating and Investigating Area				
Recognizes that area is measured using square units. "I covered the rectangle with square tiles and determined the area to be 20 square units."	Uses referents to estimate area of regular and irregular shapes, then measures to check.	Determines area by counting squares, using square metres and/or square centimetres.	Determines the area of regular shapes by counting whole and half squares.	
Observations/Documentatio	and it was actually 32 m ² ."			

Measurement

Activity 6 Assessment Exploring the Area of Rectangles

Estimating and Investigating Area (cont'd)				
Uses row and column structure of an array to determine area of a rectangle. $4 m \qquad $	Constructs different rectangles for a given area (square centimetres or square metres). Area of rectangle = 16 cm ² "I constructed 3 different rectangles: A square with side length 4 cm: 4 cm × 4 cm = 16 cm ² . A 2-cm by 8-cm rectangle: 2 cm × 8 cm = 16 cm ² . A 1-cm by 16- cm rectangle: 1 cm × 16 cm = 16 cm ² "	Determines the area of irregular shapes by decomposing into known shapes. 3 cm 2 cm 2 cm 5 cm "I decomposed the shape into a square with side length 3 cm and a rectangle with length 5 cm and width 2 cm. Area square: $A = 3 \text{ cm} \times 3 \text{ cm} = 9 \text{ cm}^2$ Area rectangle: $A = 5 \text{ cm} \times 2 \text{ cm} = 10 \text{ cm}^2$ Area of shape: $A = 9 \text{ cm}^2 + 10 \text{ cm}^2 = 19 \text{ cm}^2$ "	Flexibly determines the area of regular and irregular shapes and solves problems. A driveway is made from 1 m ² tiles. It is a rectangle with area 75 m ² . The driveway is 5 m wide. How long is it? "I know $A = I \times w$, so I solved the equation $75 = I \times 5$. I know $15 \times 5 =$ 75, so the driveway is 15 m long."	
Observations/Documentation				