

Properties - Geometric Relationships - Location \& Movement

BIG
Straightness

IDEAS


CATHCART, W. GEORGE, POTHIER, YVONNE M. \& VANCE, JAMES H. (2004)
EARNING MATHEMATICS IN ELEMENTARY \& MIDDE SCHOOLS: ATH ED LEARNING MATHEMATICS IN ELEMENTARY \& MIDDLE SCHOOLS: 4TH ED.,
TORONTO, ON: PEARSON PRENTICE HALL.



## ROTATIONAL SYMMETRY



This rhombus has reflective symmetry AND rotational symmetry.

This isosceles triangle has reflective symmetry but not rotational symmetry.

$1 / 4$ turn


1/2 turn


3/4 turn


Full Turn

## van Heile Theory of Geometric Thought



0 . Visualization

## Principles of Instruction

- Concrete $\longrightarrow$ Representational Abstract
- Varied lesson types \& instructional approaches
- Multiple representations
- Examples, non-examples
- Geometric terminology
- Technology

