

Chapter 8 Curious Math: Changing Parallelograms

Answers to Curious Math

1.-3. Note: These are sample results based on a rectangle 7 cm long and 5 cm high.

Shape	Base	Width/ Height	Area	Perimeter
Rectangle	7 cm	5 cm	35 cm ²	24 cm
2. Parallelogram #1	7 cm	4 cm	28 cm ²	24 cm
3. Parallelogram #2	7 cm	3 cm	21 cm ²	24 cm
Parallelogram #3	7 cm	2 cm	14 cm ²	24 cm
Parallelogram #4	7 cm	1 cm	7 cm ²	24 cm

4. a) The base and perimeter remain constant.
b) The width/height and area change.
c) The rectangle had the greatest area.
d) As the area decreases, the shape becomes more elongated.