## A Puzzle for the Area of a Parallelogram

Supplementary material for groups that move at a faster pace than other groups in the class
Paste the following pieces on cardboard and cut them out.


Figure 1
With the parallelogram and the triangle form the following puzzle.


Figure 2


Figure 3
Now use the rectangle and the triangle to form the puzzle.


Figure 4
What can you say about the area of the parallelogram and the area of the rectangle?

- The base of the parallelogram is equal to the base of the rectangle. You can see this by overlapping the two bases or by comparing Figure 3 with Figure 4.
- The height of the parallelogram is equal to the height of the rectangle. You can see this by comparing figures 3 and 4 .
- What can you conclude about the area of a parallelogram with respect to the area of the rectangle with the same base and the same height?

