

Tangram Shape Workshop

Grades 2-5 | 24 shapes + 6 error cards

Explore how seven tangram pieces combine to fill an abstract silhouette. Learners can work from an outline, a partial hint or a full reference and explain errors in a separate set of diagnostic cards.

24 abstract silhouettes using all 7 pieces

Outline, partial-hint and full-assembly files

6 diagnostic cards + printable tangram pieces

Suggested starting support: full KEY for targets 01-08, HINTS for 09-16, STUDENT outline for 17-24. Give the support page when needed and accept any valid seven-piece tiling. For cards 25-30, keep the diagnostic solution for checking.

The following pages are actual excerpts from the resource.
A4 + US Letter | Version 1.3
Printable PDF with teacher support

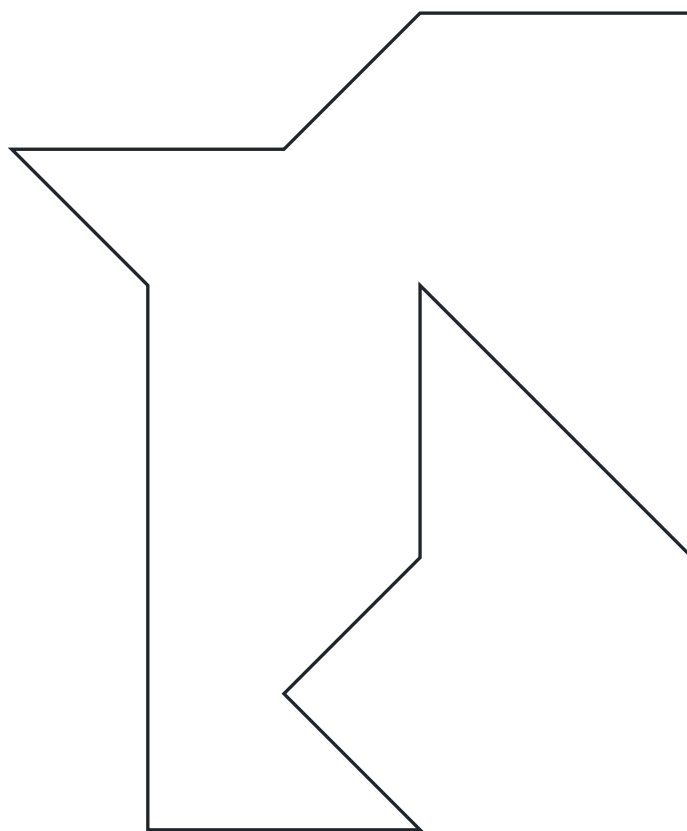


P05-01

Use KEY first

Abstract silhouette 01

Use all seven pieces. No overlaps and no gaps. You may rotate any piece and flip the parallelogram.



1:1 scale • Print at 100% / Actual size • Do not fit to page

Built it? Check all seven pieces, all edges, and the empty spaces.

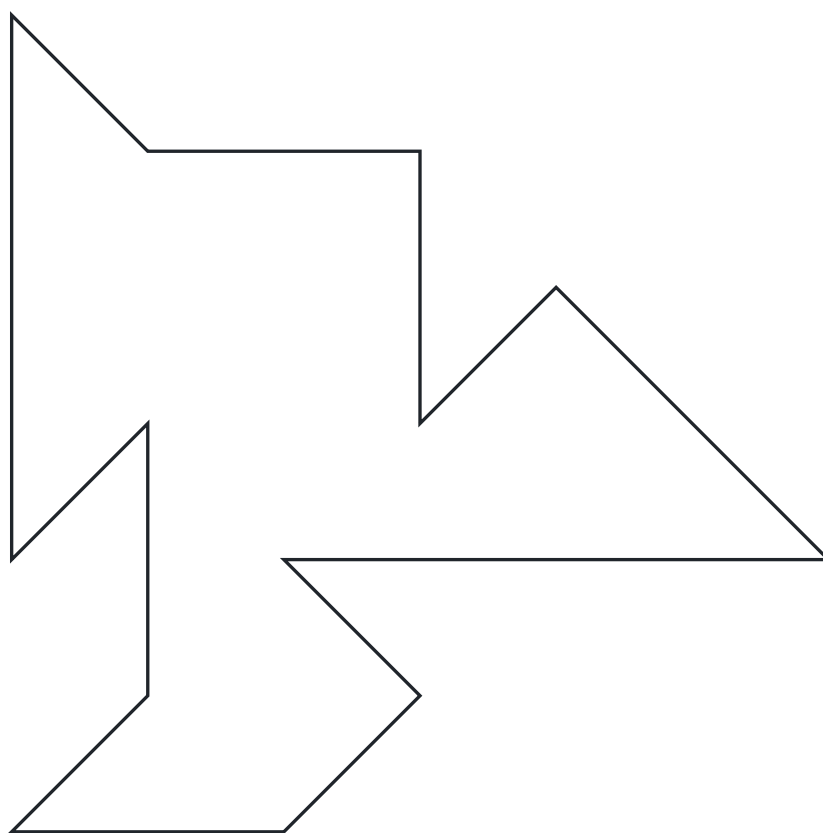


P05-09

Use HINTS first

Abstract silhouette 09

Use all seven pieces. No overlaps and no gaps. You may rotate any piece and flip the parallelogram.



1:1 scale • Print at 100% / Actual size • Do not fit to page

Built it? Check all seven pieces, all edges, and the empty spaces.

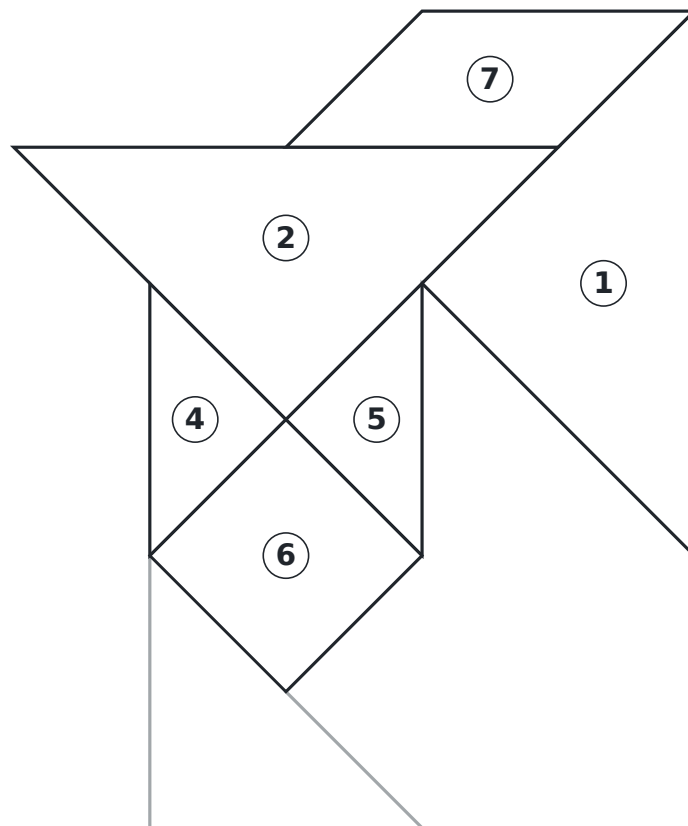


P05-25

Diagnostic

One changed piece

One preparation or placement error was made. Name the numbered piece and choose: missing, overlapping, or wrong shape/size.



1:1 scale • Print at 100% / Actual size • Do not fit to page

Piece: _____ Defect: _____

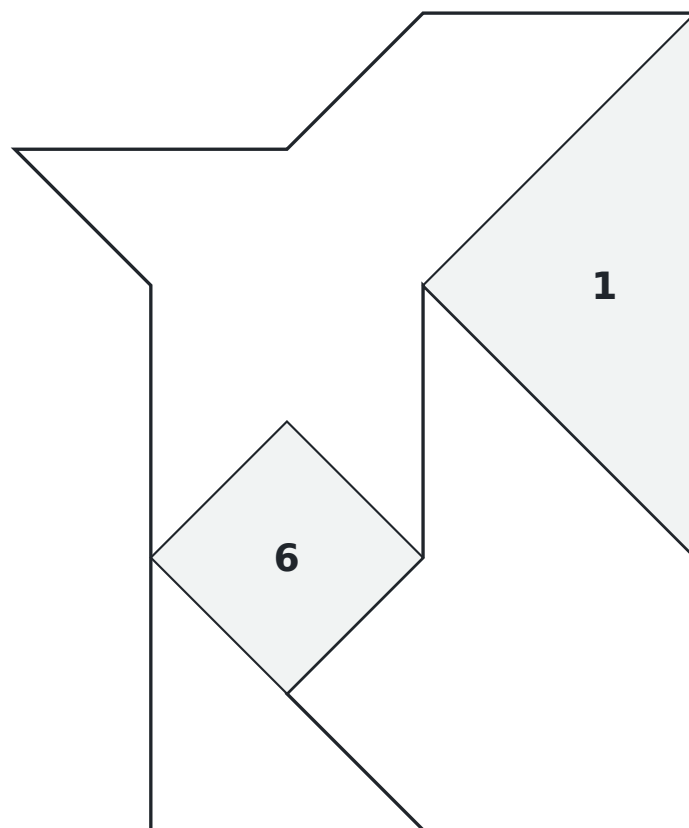


P05-01

Hint

Abstract silhouette 01

Use all seven pieces. No overlaps and no gaps. You may rotate any piece and flip the parallelogram.



1:1 scale • Print at 100% / Actual size • Do not fit to page

Pieces 1 and 6 are shown. Place the remaining five pieces.

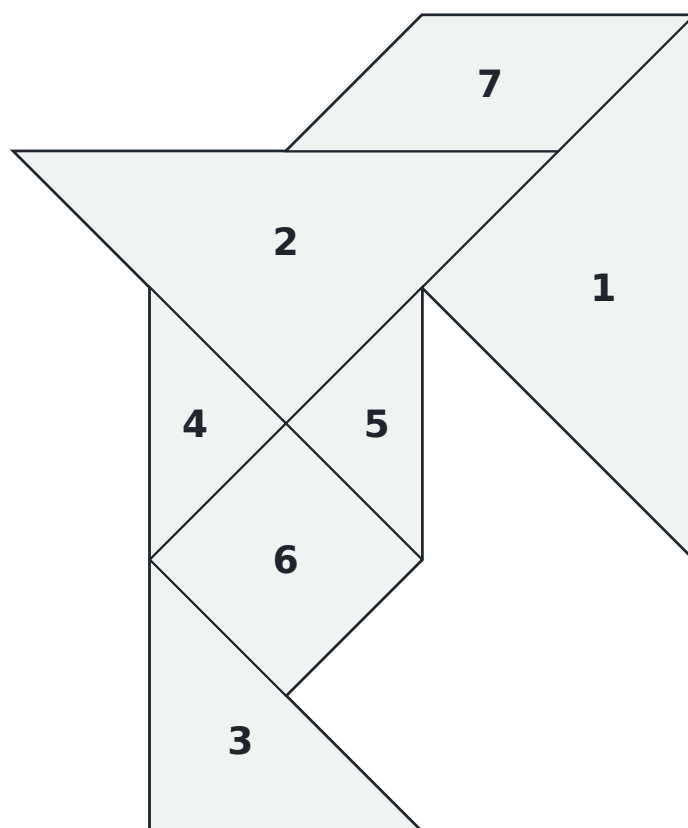


P05-01

Solution

Abstract silhouette 01

Reference assembly — other valid assemblies are accepted.



1:1 scale • Print at 100% / Actual size • Do not fit to page

Use 2 large triangles, 1 medium triangle, 2 small triangles, 1 square and 1 parallelogram.