



PUZZLERS

Teachers can photocopy this page to use in class



FOUNDATION INTRODUCING TANGRAMS

Can you name all seven of the tangram shapes?
What do you notice about how many sides they each have?

Can you make a picture from your tangram pieces?
Trace around it to make a puzzle for someone else to solve.

YEARS 1 AND 2 PUZZLES WITH TANGRAMS

Can you put the seven tangram shapes back together to make a square? (Don't show students the template!)

Can you make a triangle using three pieces? What about a parallelogram? Or a pentagon? Each time you can only use three pieces!



YEARS 3 AND 4 AREA AND PERIMETER WITH TANGRAMS

What is the area and perimeter of each shape? First estimate the order of the shapes according to area then check.
Next do this with perimeter and check.

Find two different shapes that have the same perimeter.
Do shapes with the same area have the same perimeter?

<https://nzmaths.co.nz/resource/tangram-world>

YEARS 5 AND 6 FRACTIONS WITH TANGRAMS

What fraction is each tangram piece of the whole when all seven are back together? How might you find out?
(Hint: identify the fractions of the largest shapes first)

Based on these fractions, how much should each shape cost?
Can you make a picture that is the cheapest possible and the most expensive?

<https://nzmaths.co.nz/resource/tangram-world>