

F-2: REMOTE MATHS

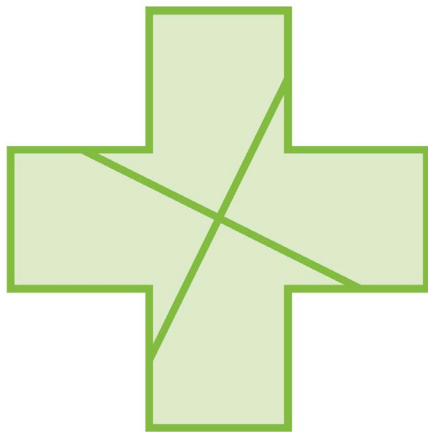
EDITION 12

MEASUREMENT AND GEOMETRY - WARM UPS

Mathematical language: square, measure, arm span, foot, rectangle, rotate, flip, rotate, shape, angle, speed, polygon shapes, triangle, size.

TASK 1: GEOMETRY CUT-OUT PUZZLE *Adapted from Dr Paul Swan.*

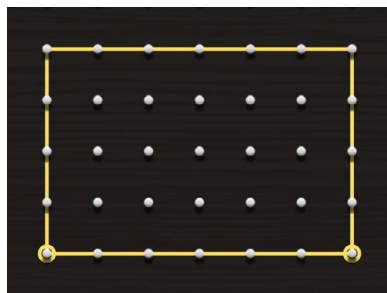
Choose one of these crosses, cut along the lines and rearrange the pieces of the cross to create a square. Download the template.



TASK 2: HOW MANY RECTANGLES *Adapted from Sullivan 2017.*

- Open the Geoboard web app: <https://apps.mathlearningcenter.org/geoboard/>
- How many different rectangles can you make with exactly 20 dots/pins?

Enabling prompt: How many different rectangles can you make using any number of dots/pins?



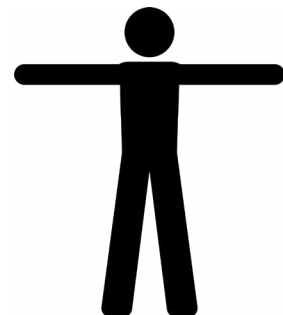
EDITION 12: MEASUREMENT AND GEOMETRY (CONT.)

TASK 3: MEASUREMENT HUNT

Go for a walk and find the following

- 3 things longer than your foot
- 2 things shorter than your arm span
- 1 thing smaller than you

Take a photo or draw a picture of you with all of your items.

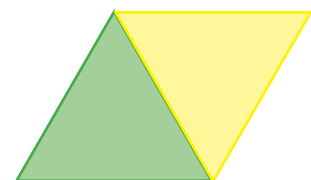


TASK 4: TRIANGLE ANIMALS

Source: MAV's Prime Number journal 2014, 29(4), original source <http://nrich.maths.org/4869>

I can join two equilateral triangles together along their edges like this picture.

- How many different ways are there to join three equilateral triangles together? You must match an edge to an edge.
- How do you know you have got them all? How many different ways are there to join four equilateral triangles together?
- Have you got a system for checking that you have them all?

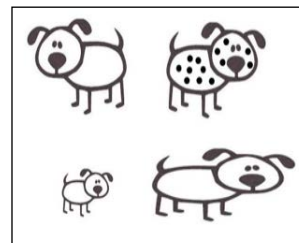
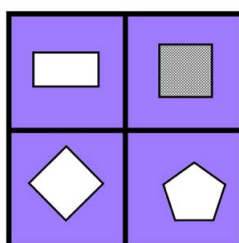
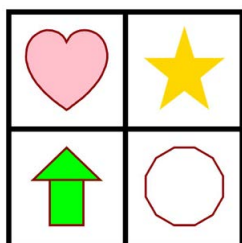


TASK 5: WHICH ONE DOESN'T BELONG?

Adapted from <https://wodb.ca/numbers.html>

Choose one of these three images to work out which number, fraction or equation doesn't belong and why.

- Think of at least 3 different responses.



Look out for more tasks next week!