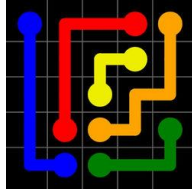


## Math Café for Parents: Focussing on Spatial Reasoning

Some good apps to download:

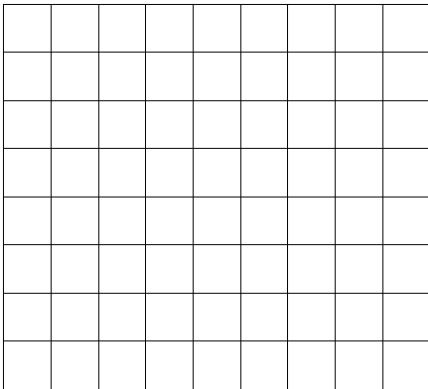


Flow Free

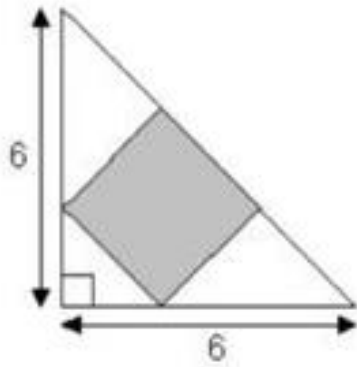


Geoboard

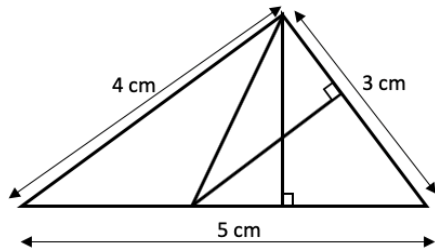
### Some Puzzles!



Split this rectangle into seven smaller squares.  
The side of each square must be a whole number.



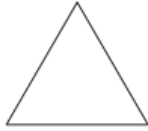
What is the area of the shaded square?



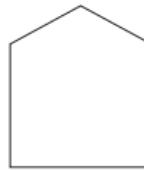
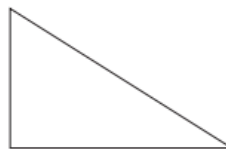
How many right-angled triangles can you find here?

## Some EQAO Questions

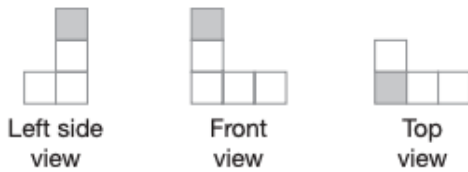
**7** Which shape has **only** one right angle?



**17** Which shape below has vertical, horizontal and diagonal lines of symmetry?



**6** These are the left side, front and top views of a 3-D figure made of connecting cubes.



How many cubes are needed to make this figure?

**12** Which of the following polygons has sides that are **all** equal in length, and **no** right angles?



square



rectangle

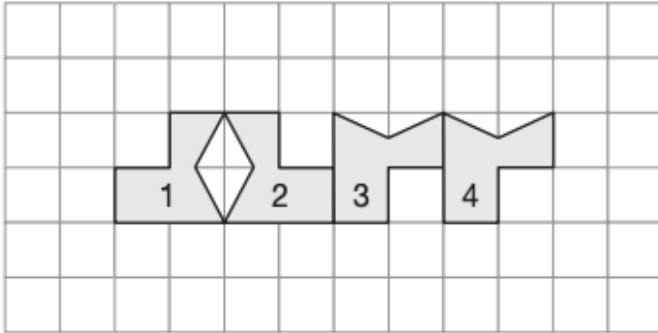


isosceles trapezoid



equilateral triangle

- 9 A design is made using a single shape and applying a transformation to create the next shape.



Draw any lines of reflection and plot any points of rotation on the design.

Name and describe each transformation in the table. Be sure to reference any line or point you have drawn.

| Transformation of shape | Type of transformation | Description |
|-------------------------|------------------------|-------------|
| Shape 1 to Shape 2      |                        |             |
| Shape 2 to Shape 3      |                        |             |
| Shape 3 to Shape 4      |                        |             |

