

Translations

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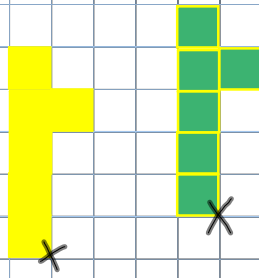
Translations

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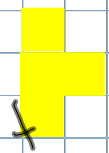
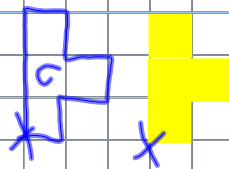
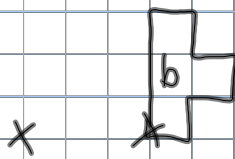
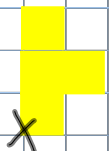
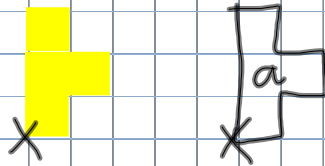
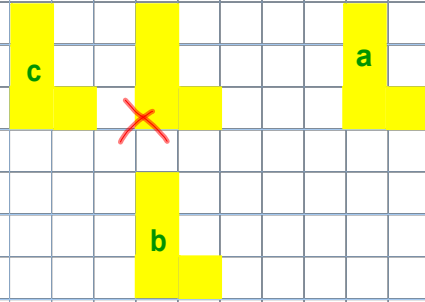
Translations

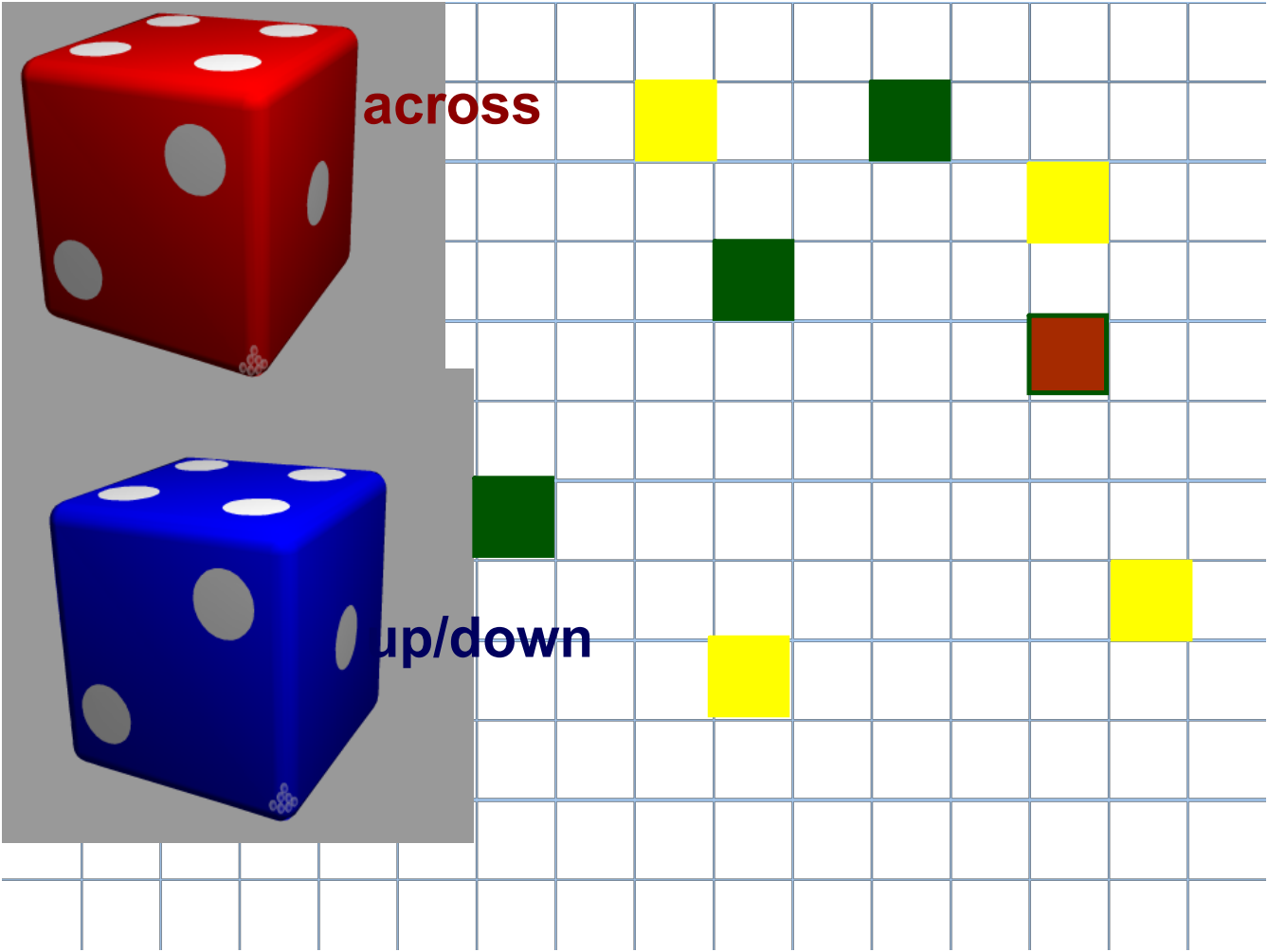
Translations

Translations are slides!



page 99



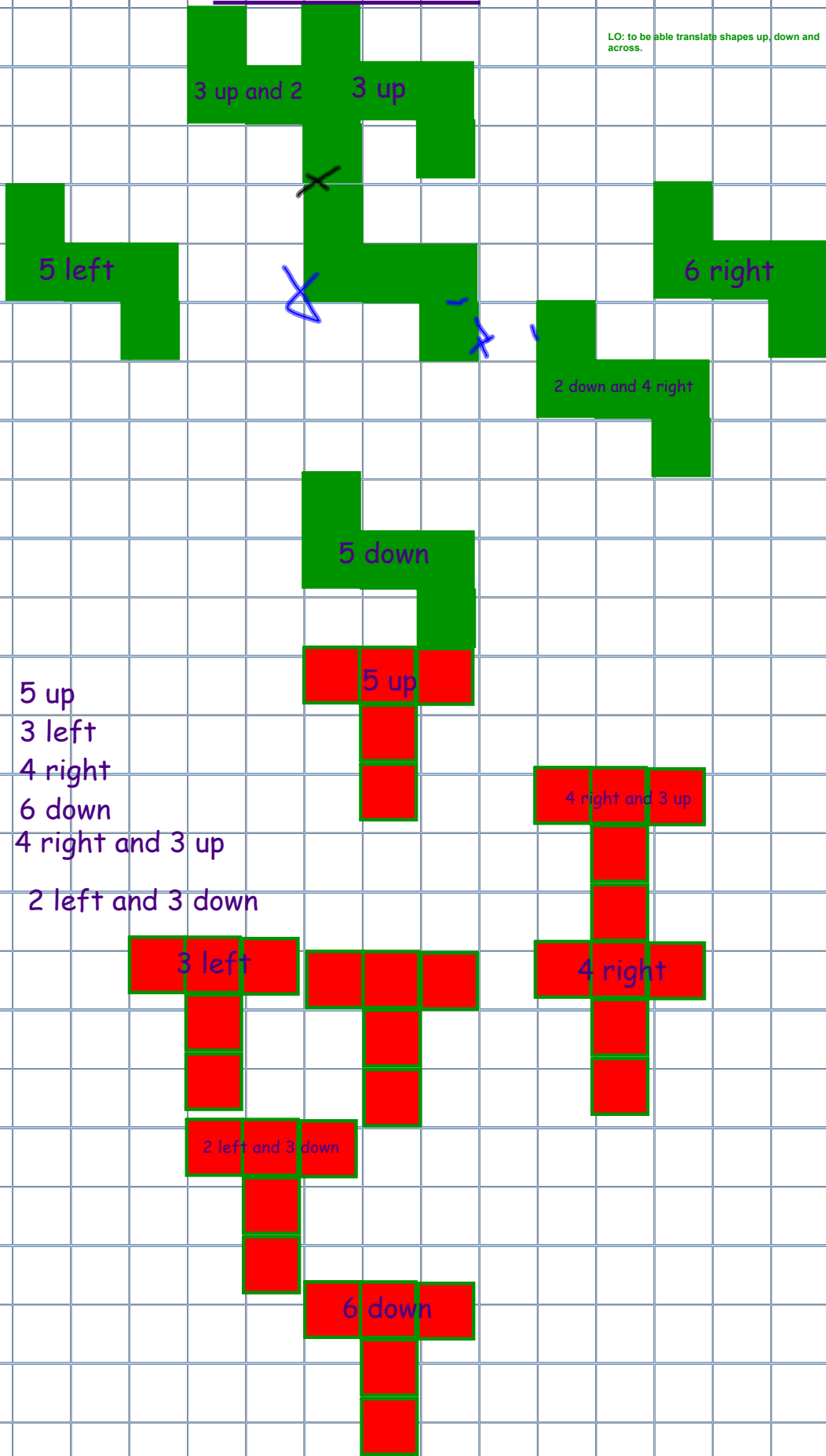


Homework

**for Tuesday
page 110 qu 2 and 3**

Translations

L.O: to be able translate shapes up, down and across.



LO: To identify clockwise and anti clockwise rotations, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ turns.

Clockwise



page 102-104 questions 1-5

When you have finished:

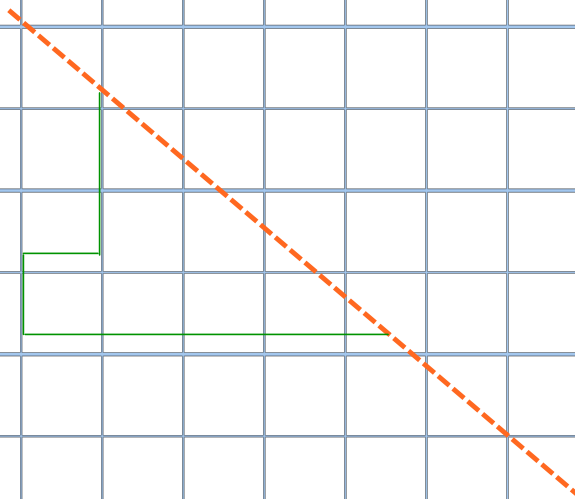
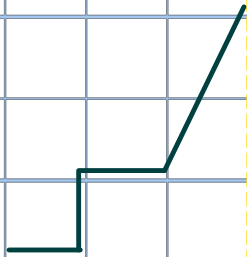
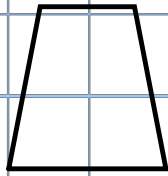
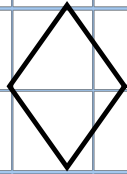
Big blue book: p40 and 41

**If you can read this don't say
anything!
Turn to the back of your book
and write out the 4 times tables.**

ppt slides

LO: to be able to reflect shapes in a horizontal or vertical line

Reflection

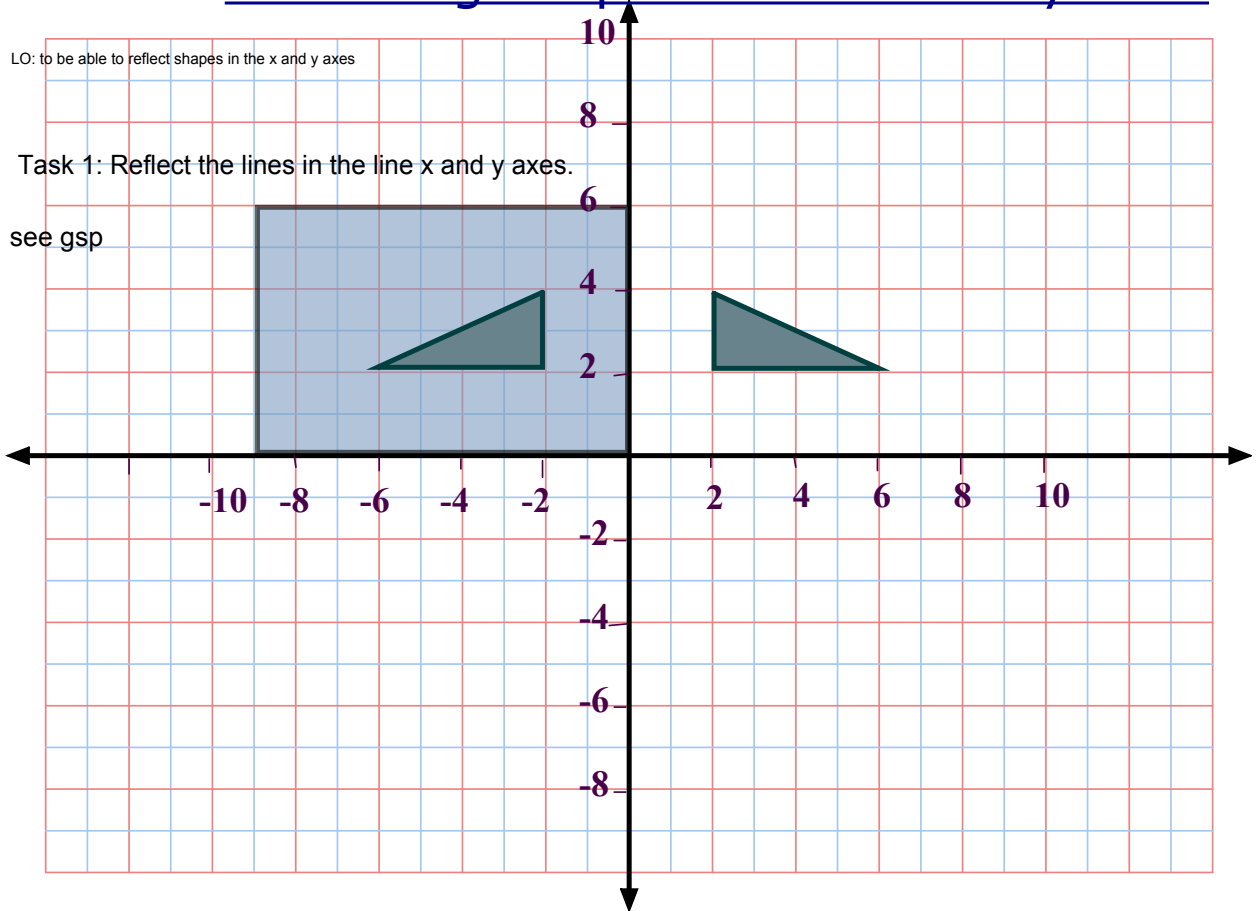


Reflecting shapes in the x and y axes

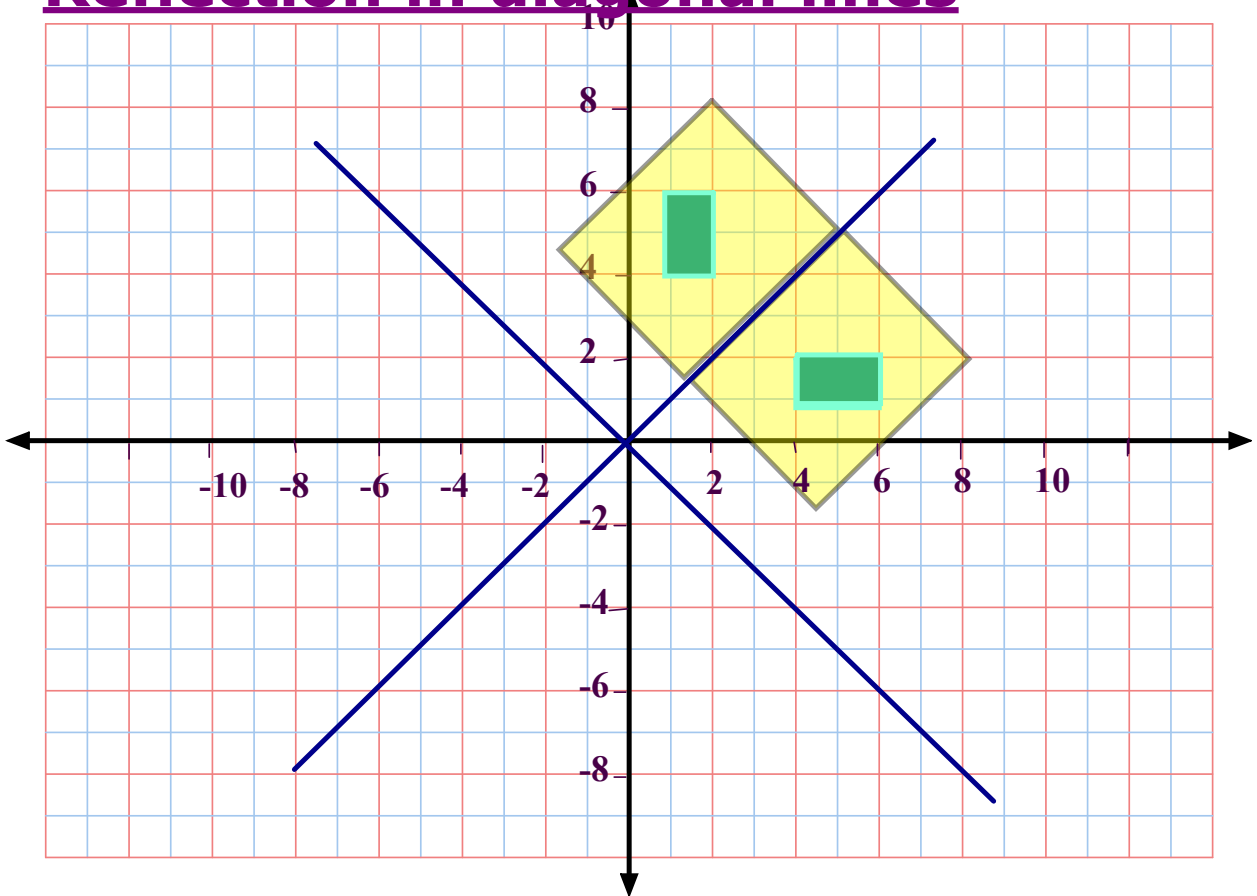
LO: to be able to reflect shapes in the x and y axes

Task 1: Reflect the lines in the line x and y axes.

see gsp



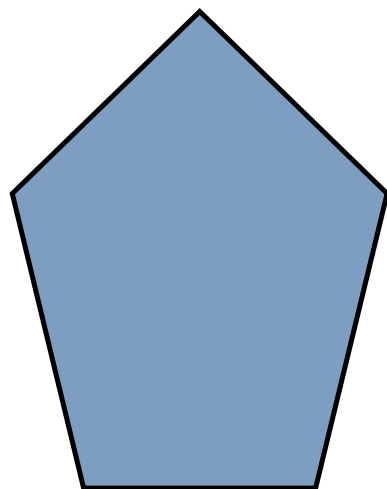
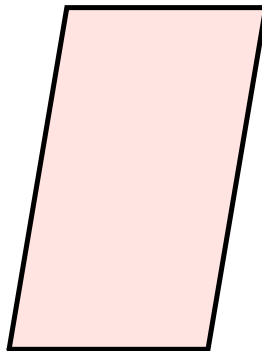
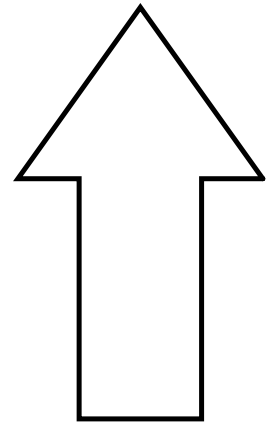
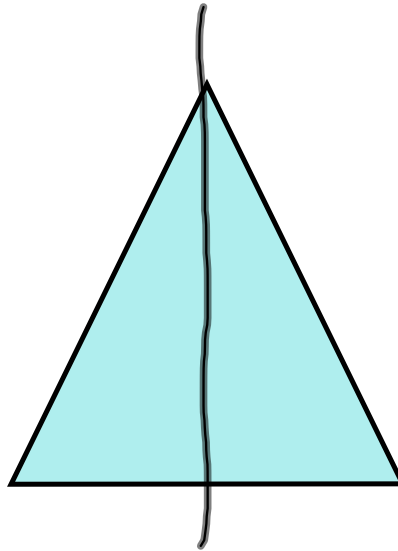
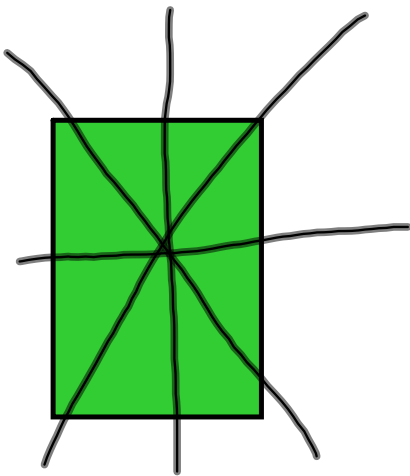
Reflection in diagonal lines



LO: to identify the lines of symmetry in 2d shapes

Reflectional Symmetry
Βεηθηοναη ζυμμεηη

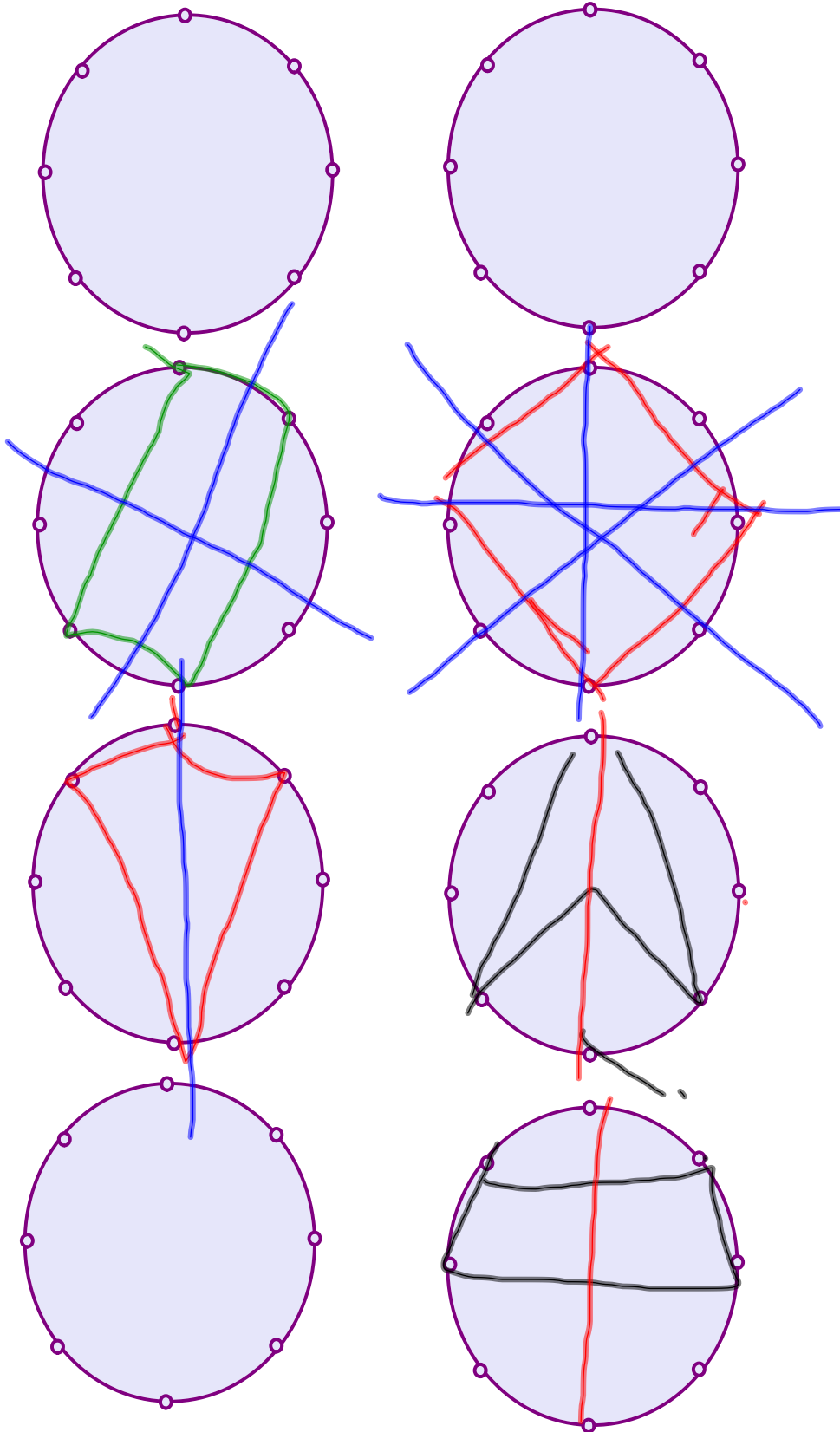
Lines of symmetry



Identifying all the lines of symmetry of 2d quadrilaterals

(level5)

Join four dots to make as many quadrilaterals as possible.
Use tracing paper to check that each shape is unique (not a reflection or rotation of another quadrilateral you have already drawn).



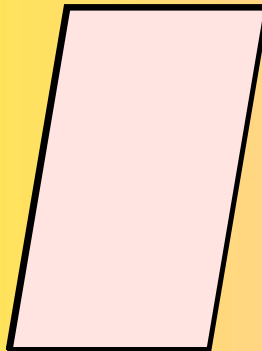
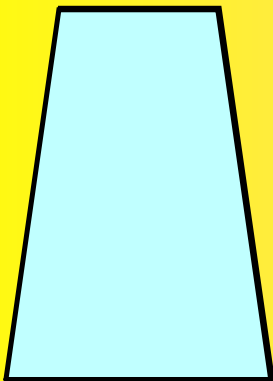
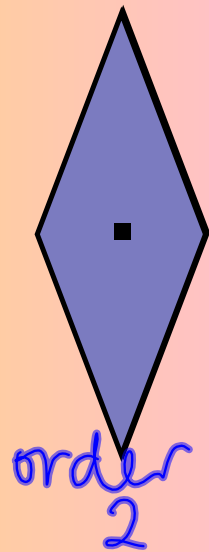
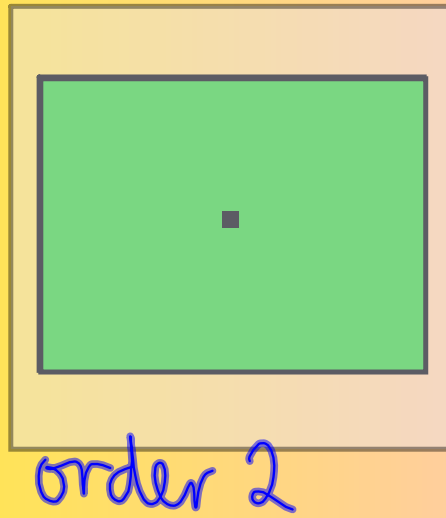
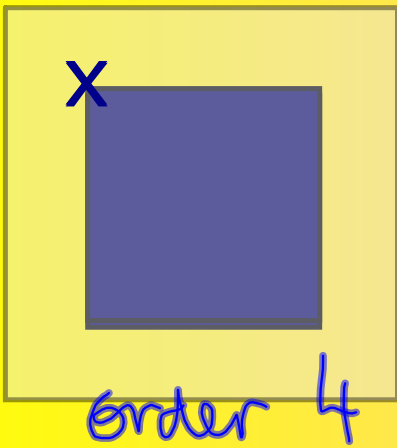
Name each of your quadrilaterals.
Mark in all their lines of symmetry.

ppt Rotational symmetry slides

**Classify pictures- reflectional, rotational
or both?**

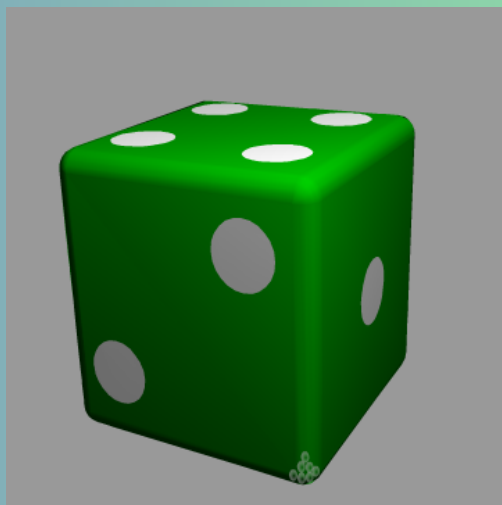
LO: Name the basic polygons and work out their order of rotational symmetry.

Rotational Symmetry: Finding the order of a shape



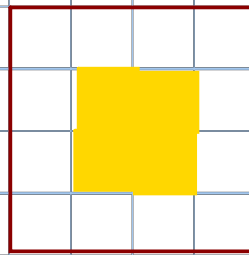
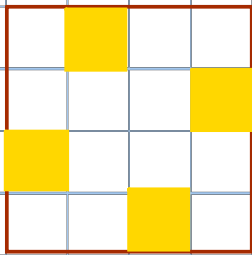
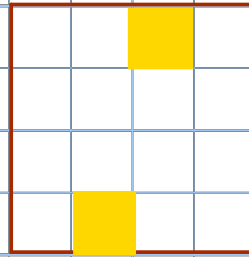
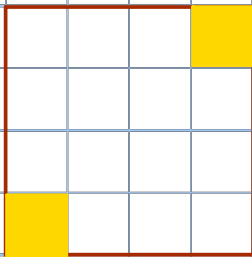
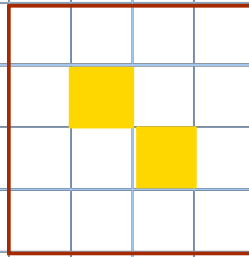
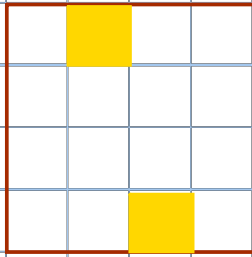
**Use 2D
shapes**

What is the order of rotational symmetry on the face of a dice?



Rotational Symmetry

Order 2



Order 4

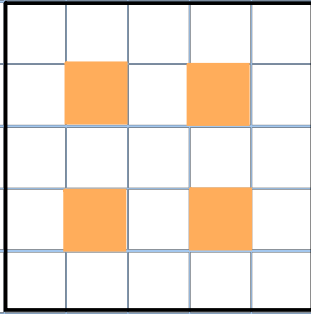
Swap sheets and check your partner's with tracing paper.

Draw 2 more squares. Decide what order they will have.

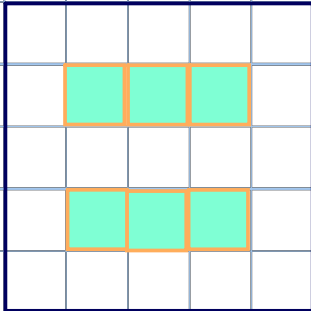
Make 2 patterns and see if your neighbour can tell you the order of each.

Look at rotational symmetry photos again.

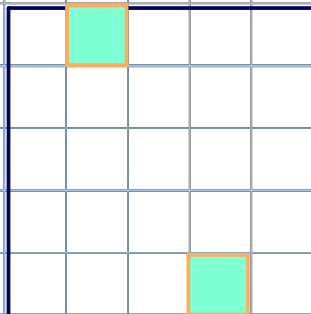
What order of symmetry do they have?



Does this shape have reflectional symmetry?
Does it have rotational symmetry?



Does this shape have reflectional symmetry?
Does it have rotational symmetry?



Does this shape have reflectional symmetry?
Does it have rotational symmetry?

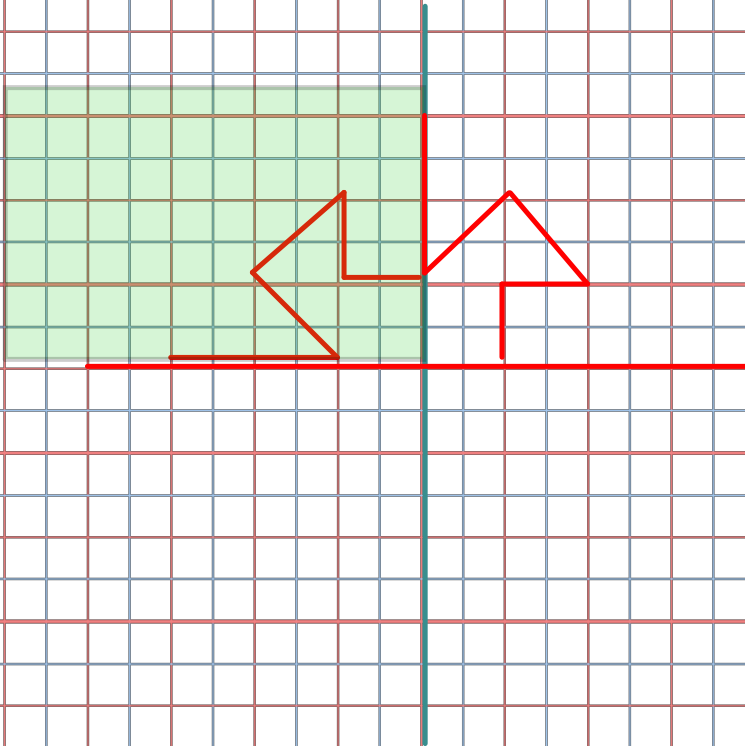
Level 5 SATS question:
Draw a different pattern in a square that has rotational symmetry but not reflectional symmetry.

Can you draw a pattern that has reflectional symmetry but not rotational?



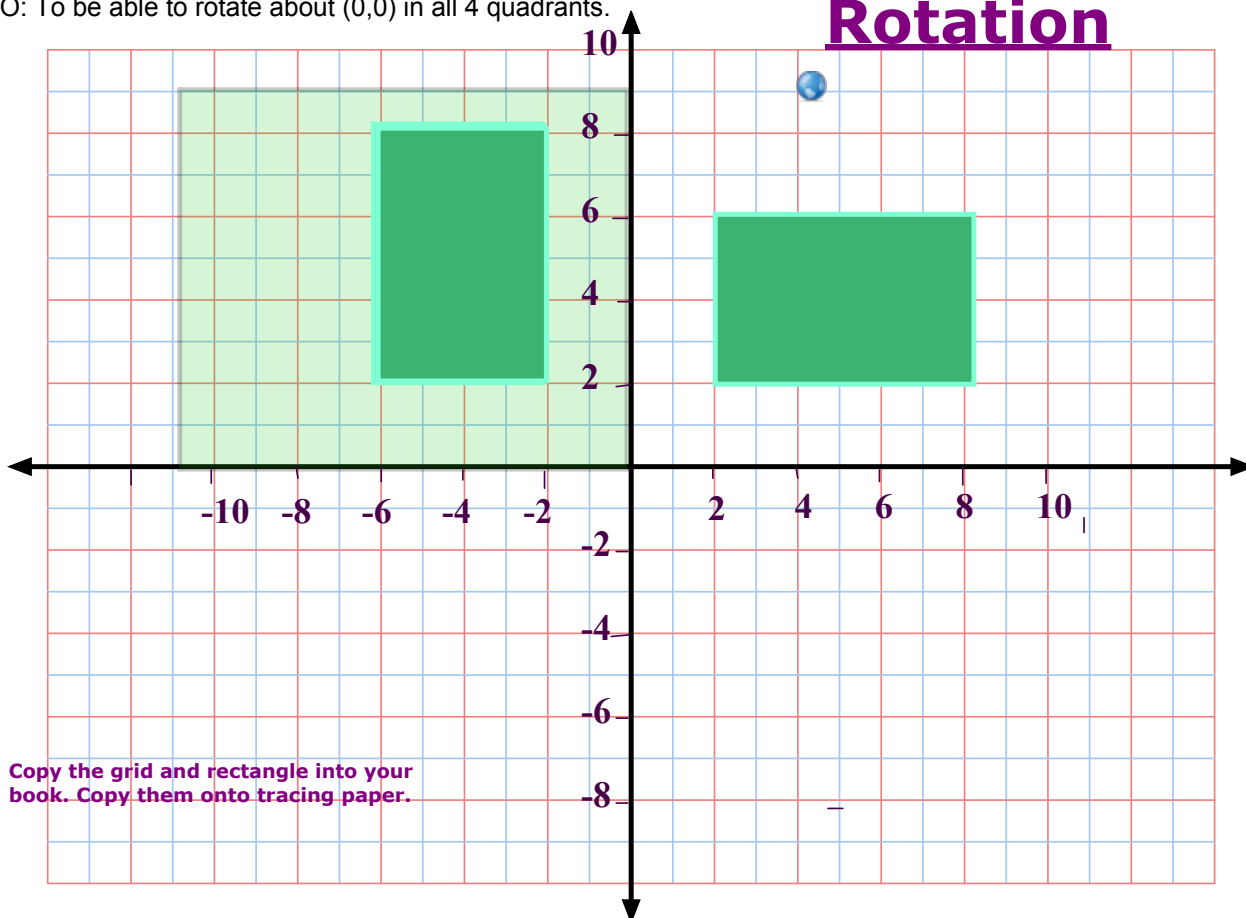
Rotation in both axes

LO: to be able to rotate a shape in both axes



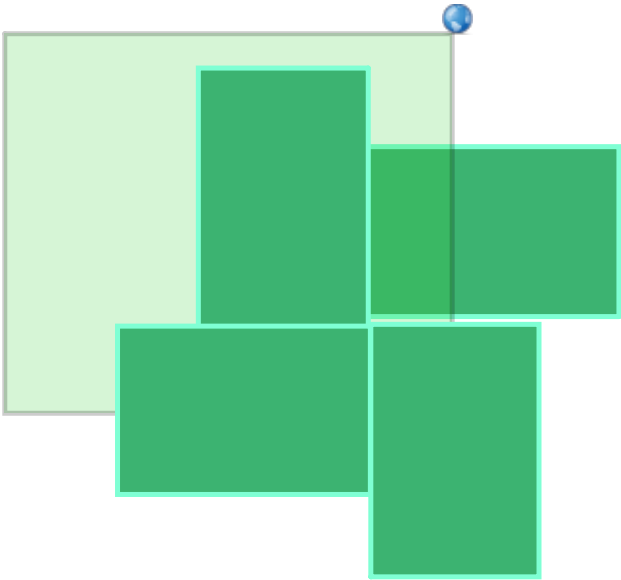
LO: To be able to rotate about (0,0) in all 4 quadrants.

Rotation



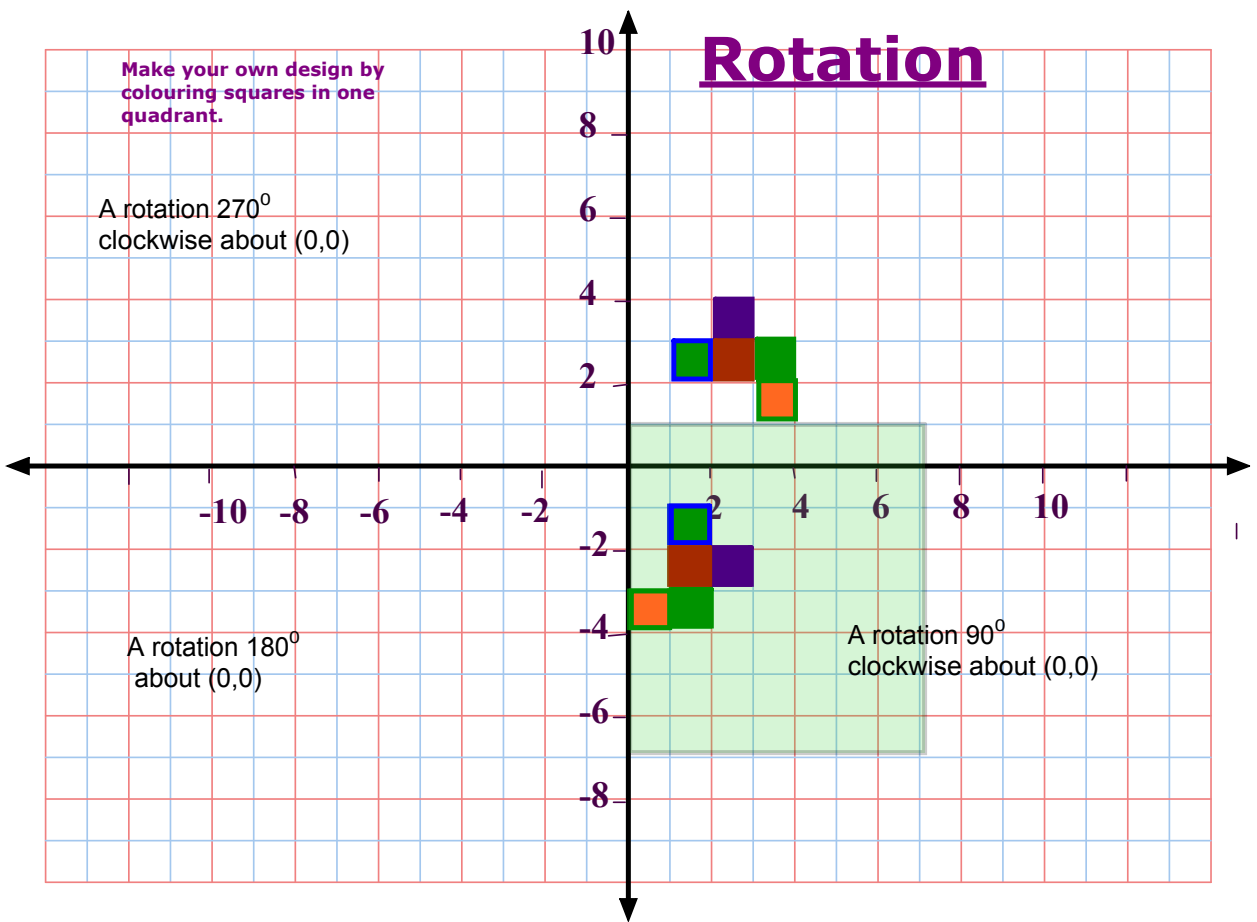
LO: To be able to rotate about (0,0) in all 4 quadrants.

Rotation

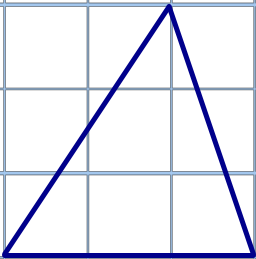
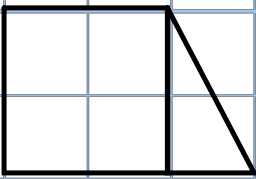


Copy the grid and rectangle into your book. Copy them onto tracing paper.

Rotation



Enlargement



Enlargement is measured using a scale factor. The scale factor tells you what to multiply the lengths by.

For example: Scale factor 2 means double all the lengths

scale factor 3 means triple all the lengths

scale factor 4 means times all the lengths by 4 and so on..

Attachments

rotation.agg

rotation and reflection.gsp