This week's maths

Transformations

Learning objectives

Monday - To describe the positions on a co-ordinates grid

Tuesday - To improve calculation fluency (20for20)

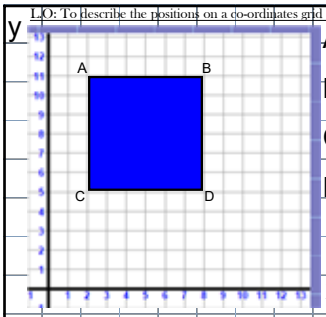
Wednesday - To translate shapes on a grid

Thursday - To reflect shapes on a grid

Friday - To understand scale factor enlargement

Sep 10-18:45

LO: To describe the positions on a co-ordinates grid



A = 2,11

B = 8,11

C = 2,5

D = 8,5

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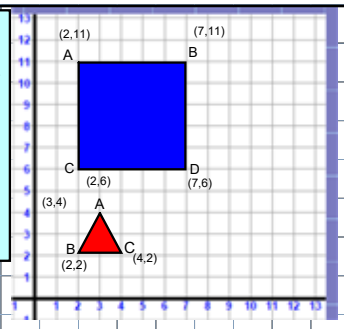
Year 5s

- On a grid, or in your book if you want to go larger.
- Draw on a range of shapes (not just squares) and label their vertices using letters.
- Also label your shape with a letter
- I would expect to see at least A-C for the vertices.
- Under your grid or on the next page write down the co-ordinates of the shapes you have just created.



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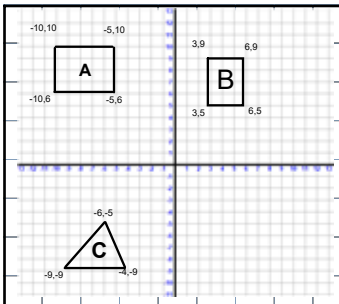

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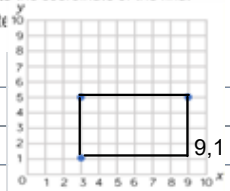
Missing co-ordinates

Tommy is drawing a rectangle on a grid.
Plot the final vertex of the rectangle.
Write the coordinate of the final
verte



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Battleships

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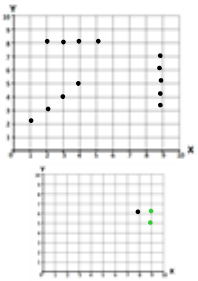
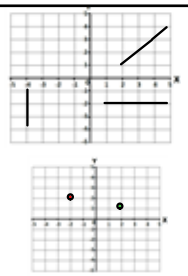


2 x 4
1 x 5



2 x 3
1 x 4

-4,-1
-4,-2
-4,-3
-4,-4

LO:To translate shapes on a grid

What is a translation?

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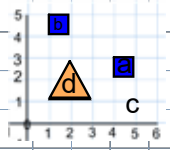
Translation is moving a shape on a grid



3, -2
-3, 1
-3, 2
-3,1

-Right - Left
-Up - Down

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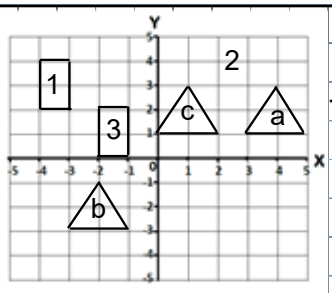

6,1
-4,-3
-6,-4
5,0

-2,4

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Year 6 extension task

1)

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LO: To reflect shapes on a grid

What is a reflection?

What happens to a shape or object when we reflect it?

Year 6 tasks: page 88 of Year 6 MMWGD (Print from book)

Year 5 reflections.docx

Year 6 translation and reflection work.docx

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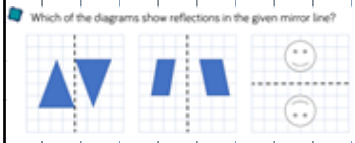
What is a reflection?

What happens to a shape when we reflect it?



Year 6 tasks: page 88 of Year 6 MMWGD (Print from book)

Year 5 reflections.docx

Year 6 translation and reflection work.docx

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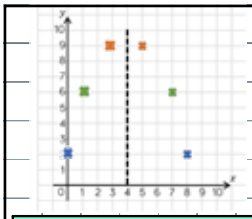

Rule: the vertices of the object and its image must be the **same** distance from the mirror line

Year 6 tasks: page 88 of Year 6 MMWGD (Print from book)

Year 5 reflections.docx

Year 6 translation and reflection work.docx

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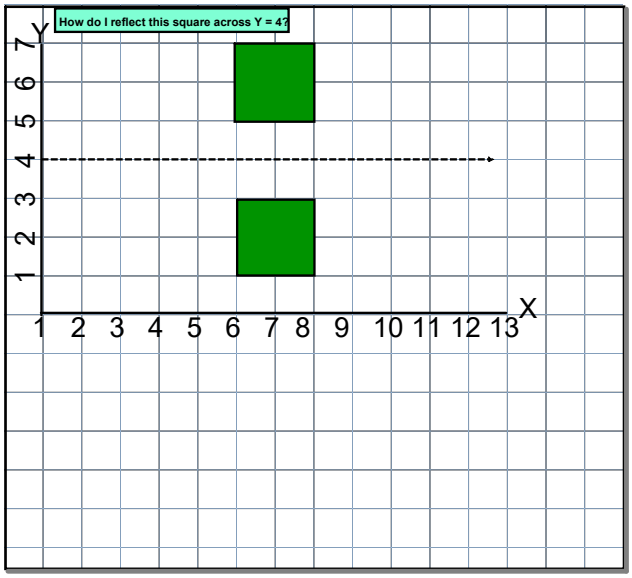

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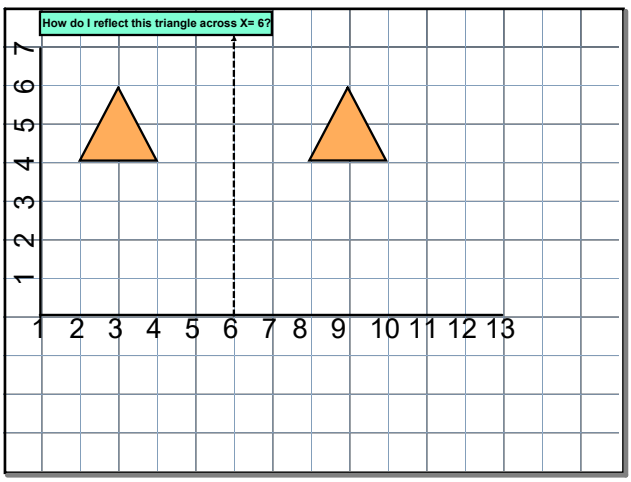

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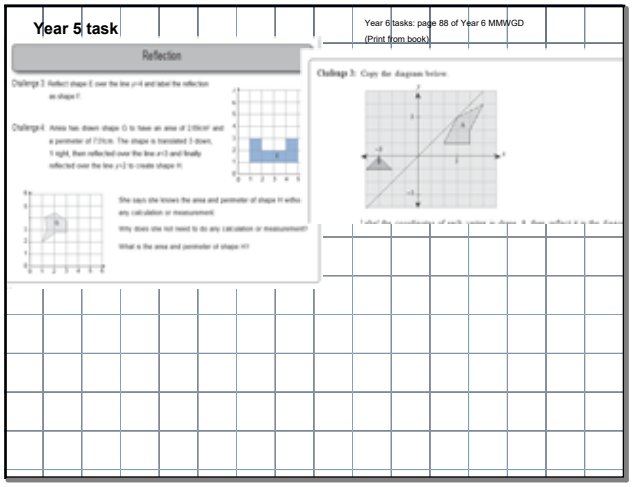
Year 5 task

Year 6 tasks: page 88 of Year 6 MMWGD (Print from book)



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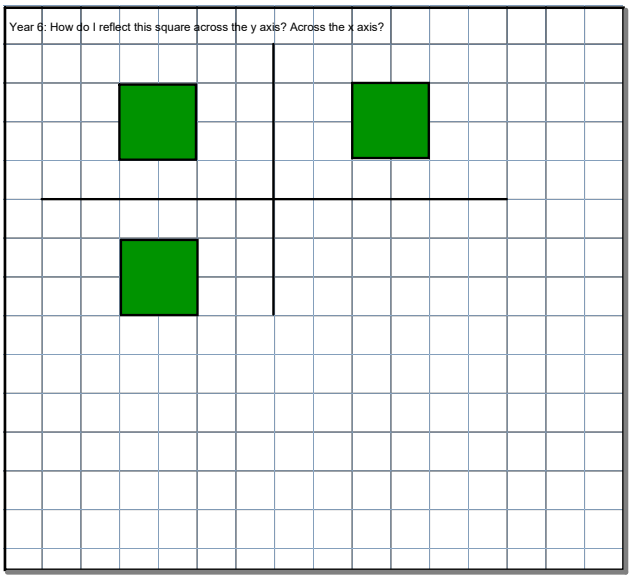

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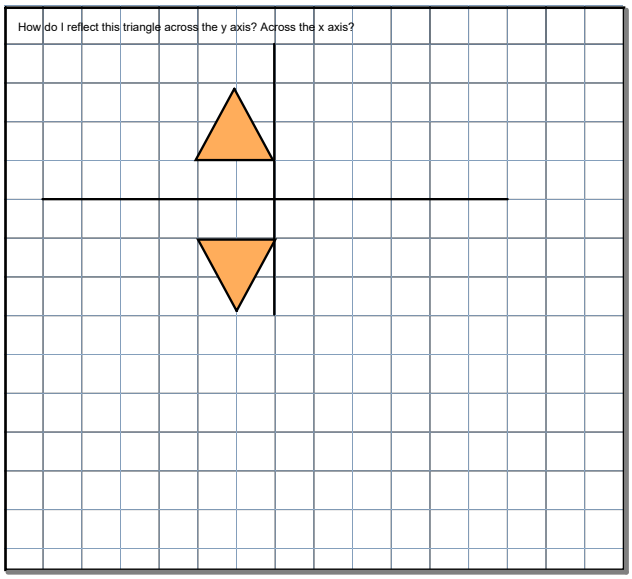

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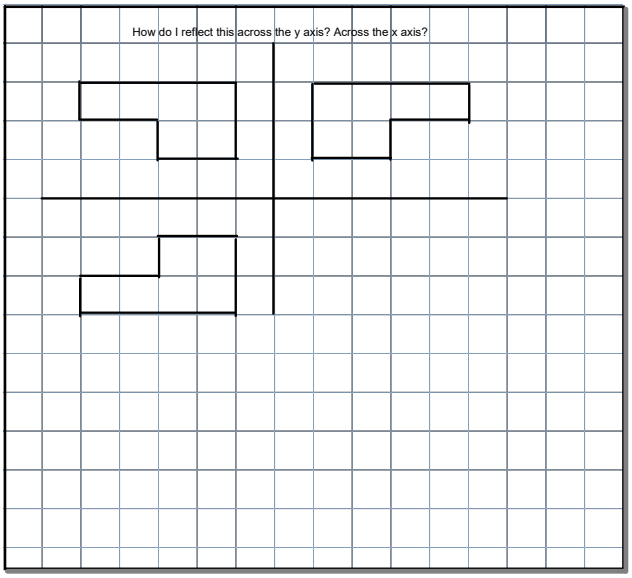

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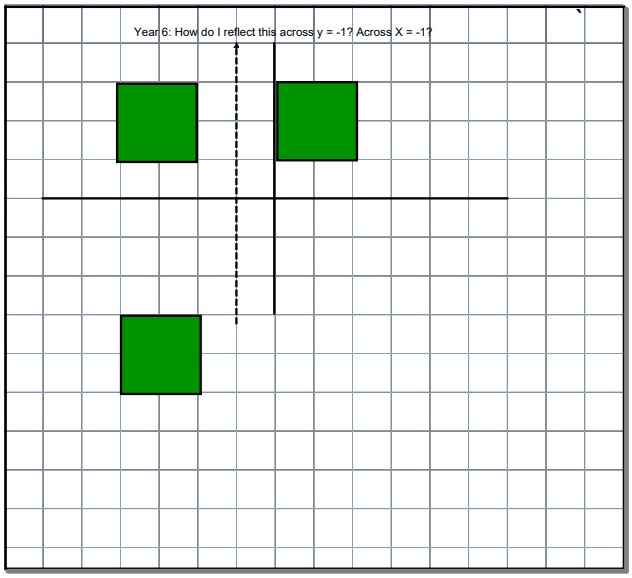

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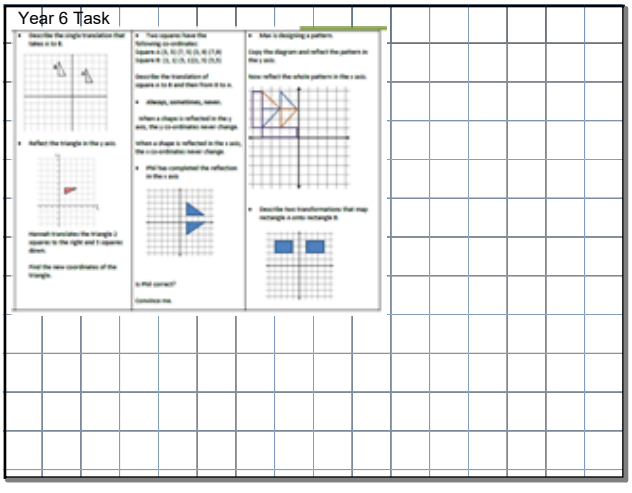

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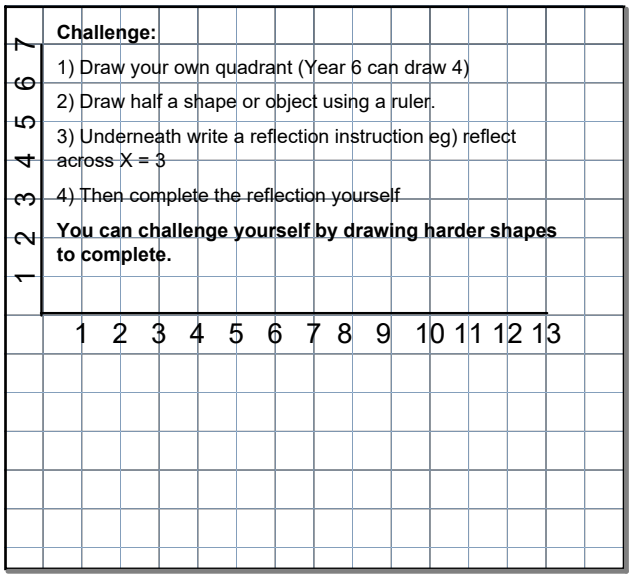

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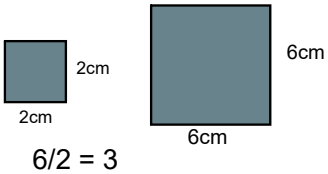
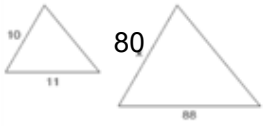
L.O: To understand scale factor enlargement



6/2 = 3

2 x3 6

Triangle enlarged by a scale factor of 8



88/11 = 8

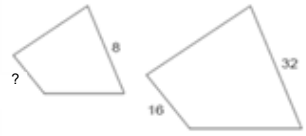
Enlarged by a scale factor of 11

10 x ? = 110

110/10 = 11

3 x 11 = 33

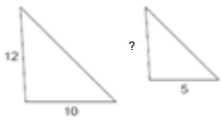
Enlarged by a SF of 4



32/8 = 4

16/4 = 4

Enlarged by a scale factor of a 1/2



10/5 = 2

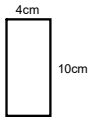
12 / 2 = 6

Enlarged by a scale factor of 1/8

48 / 6 = 8

56 / 8 = 7

Enlarge this rectangle by a scale factor of 10



Enlarge this triangle by a scale factor of 1/5

Attachments

Lesson 3 3D_Shape_Properties_Table.pdf

Lesson 3 3D_shape_properties_HA.pdf

lesson 1 Name the polygon.docx

Lesson 1 Name the quadrilateral.docx

lesson 1 Regular vs Irregular sheet.docx

Polygon and quadralateral types answers.docx

Name the Quadrilateral types.docx

making nets of 3d shapes.doc

Shape week 2 Planning.docx

Year 6 missing coordinates.docx

lesson 1 Year 5 quadrant.docx

Year 6 quadrants.docx

lesson 2 Year 6 translation.docx

lesson 2 enrichment.docx

Year 6 translation and reflection work.docx

Year 5 reflections.docx

Coordinate-Battleships---Differentiated.pdf

Yr6 coordinates extension.docx

Y5 translation extension.docx

Y6 translation extension.docx

Translation practice grids.docx