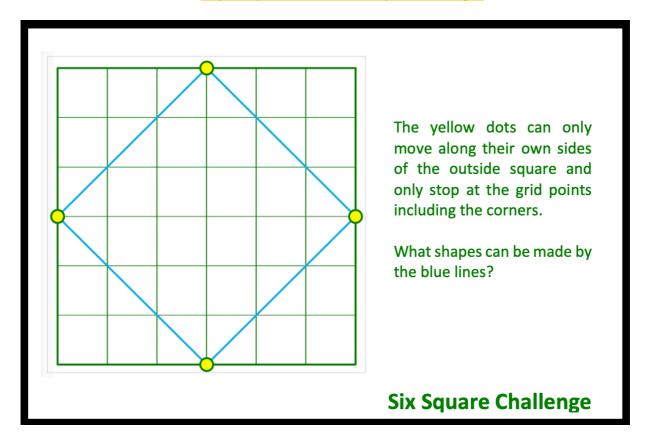
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6 Square Challenge

For ActivInspire, PowerPoint, interactive Excel file and these Teacher Notes go to:

https://spiremaths.co.uk/6squarechallenge/



Files available

- ActivInspire flipchart with all needed for lesson
- PowerPoint for lesson
- Interactive Excel Pupil File
- Interactive Excel Teacher File with Answers
- Teacher Notes including 2 Pupil Worksheets (this file)
- 3 gif files included with flipchart and PowerPoint

Overview

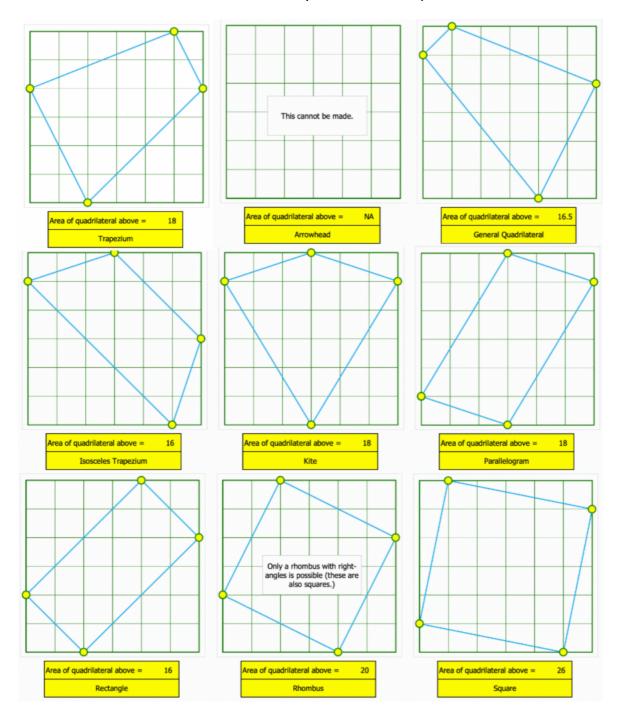
- 1. This activity can be left open or you can provide more guidance (list of quadrilaterals and/or triangles is available).
- 2. Excel file allows pupils to experiment as they move the yellow dots to create quadrilaterals, triangles and a straight line. Answers can be shown on worksheet (contains blank gids).
- 3. Alternatively can be done just on paper. Excel file can be used by teacher to demonstrate an example.
- 4. Answers provided both on paper (in this file, flipchart and PowerPoint) and in format of gifs.
- 5. Areas can be calculated (easiest way is to subtract triangles outside the quadrilateral or triangle from 36).

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Answers

Quadrilaterals

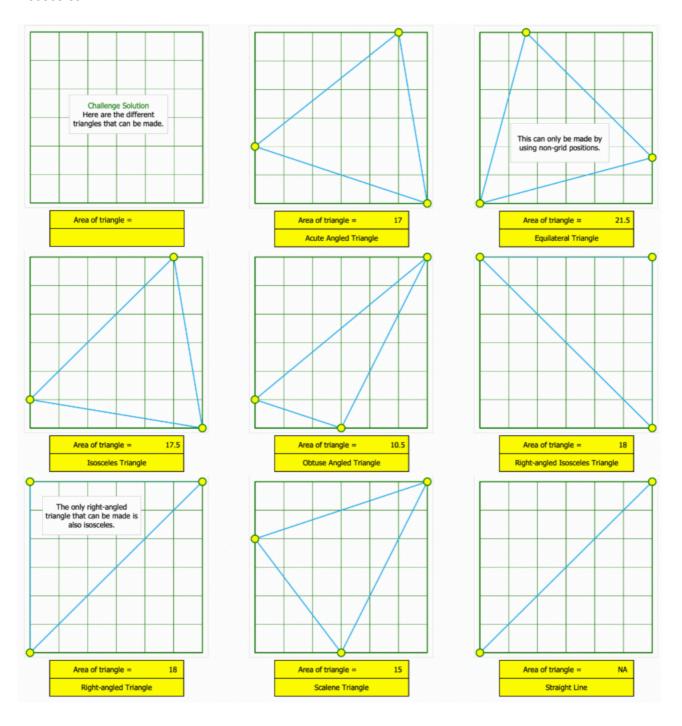
Arrowhead cannot be made. Rhombus is only made when a square is also made.



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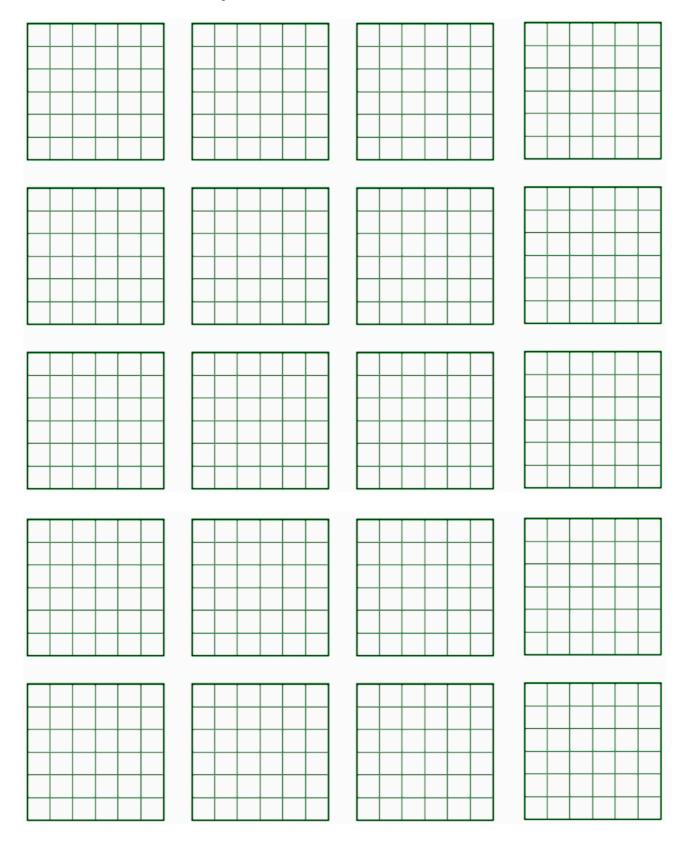
Triangles

Equilateral triangle can only be made with non-integers, when points are Left and Bottom = (0, 0), Top = (1.6077, 0) and Right = (6, 1.6077). Right-angled triangle is only made when it is also isosceles.



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Worksheet: Blank 6 Squares



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Worksheet: Blank 6 Squares: Shapes named

Arrowhead General Quadrilateral Isosceles Trapezium Kite Parallelogram	Rectangle Rhombus Square Trapezium	Acute Angled Triangle Equilateral Triangle Isosceles Triangle Obtuse Angled Triangle	Right-angled Isosceles Triangle Right-angled Triangle Scalene Triangle Straight Line
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