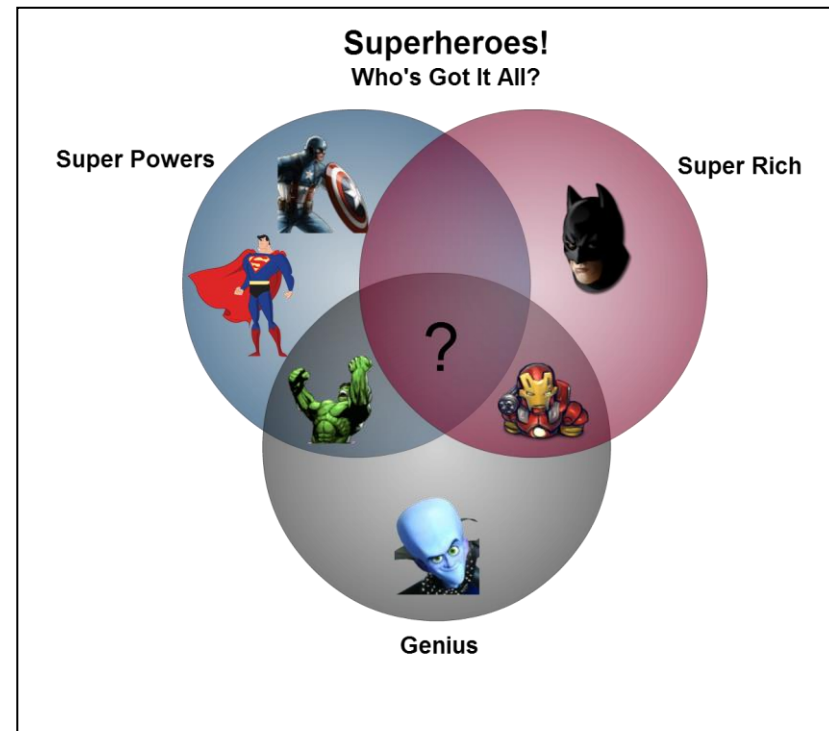


Y10 Maths Weekly Task Grid – Week commencing 27th April

Choose at least 4 tasks to complete throughout the week. I would like at least 2 tasks to be from the **Pink** boxes if possible.

<p style="text-align: center;"><u>Task 1</u></p> <p>Complete all newly set work on https://www.mathspad.co.uk/ Passwords are on SMHW This week, work set on mathspad is adding and subtracting negative numbers revision Top of the leader board is <u>Nina</u> <u>Tom Firth</u> completed the most tasks in the last 7 days.</p>	<p style="text-align: center;"><u>Task 2</u></p> <p>Go onto mangahigh Maths Website Log on with the details attached to show my homework Complete tasks that have been set in the last couple of weeks If you redo the exercise you will start on the harder questions you got to last time You get more points for answering harder questions Try and get at least a bronze medal</p>	<p style="text-align: center;"><u>Task 3</u></p> <p>Make a Venn diagram on any item or topic you like that is not to do with maths. I have put a couple of examples on the next page to show you what I mean.</p>	<p style="text-align: center;"><u>Task 4</u></p> <p style="text-align: center;">*Competition* Play the maths game below: Peg Jumper Who can finish the game with the least amount of pegs! Can anyone win the game by completing it with only one peg left in the middle!</p>
<p style="text-align: center;"><u>Task 5</u></p> <p>Complete the exercises on the bearings powerpoint attached to SMHW Answers are on the powerpoint.</p>	<p style="text-align: center;"><u>Task 6</u></p> <p>Go onto mr carter maths website Log on with the following details: <u>student@stocksbridgehigh.co.uk</u> password is Prism240 Click on >secondary>geometry> circle theorems Do as many questions as you like and then check your answers</p>	<p style="text-align: center;"><u>Task 7</u></p> <p>Have a go at, the very famous, bridge crossing problems on page 3 & 4.</p> <div data-bbox="1198 790 1556 1021" data-label="Image"> </div>	<p style="text-align: center;"><u>Task 8</u></p> <p>Watch a film that is linked to maths. Some ideas below (all PG): A Beautiful Mind The Man Who Knew Infinity Queen of Katwe Moneyball Back to the Future Hidden Figures (Haven't received this task completed by anyone yet.)</p>
<p style="text-align: center;"><u>Task 9</u></p> <p>Complete all newly set work on https://www.mymaths.co.uk/ Passwords are on SMHW <u>Work set on mymaths is on Bearings- useful if you don't have a protractor</u></p>	<p style="text-align: center;"><u>Task 10</u></p> <p>Join an online lesson with Miss Lowe on Zoom I will be teaching 1 lesson this week. I will post on show my homework the day before what topic I will be covering in this lesson. If you would like to join the zoom lesson then email me on: lloewe@stocksbridgehigh.sheffield.sch.uk or message me on SMHW</p>	<p style="text-align: center;"><u>Task 11</u></p> <p>Complete the questions on page 5. Submit to me via email or SMHW and I will check them. (This is a new one)</p>	<p style="text-align: center;"><u>Task 12</u></p> <p>Read a book that is linked to maths. Some ideas below: Giant Pumpkin Suite - Melanie Heuiser Hill Navigating Early - Clare Vanderpool Secrets, Lies and Algebra - Wendy Lichtman Ruby Redfort Feel the Fear - Lauren Child (Haven't received this task completed by anyone yet.) More book ideas on this link if you want them</p>

Task 3

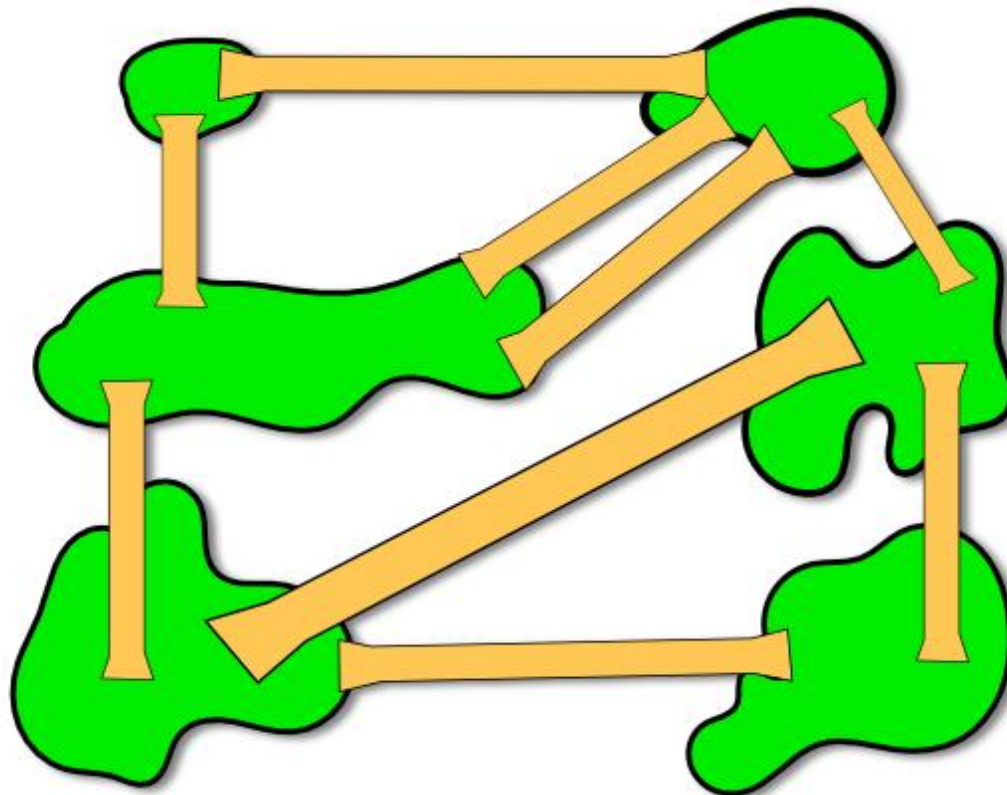


Task 7

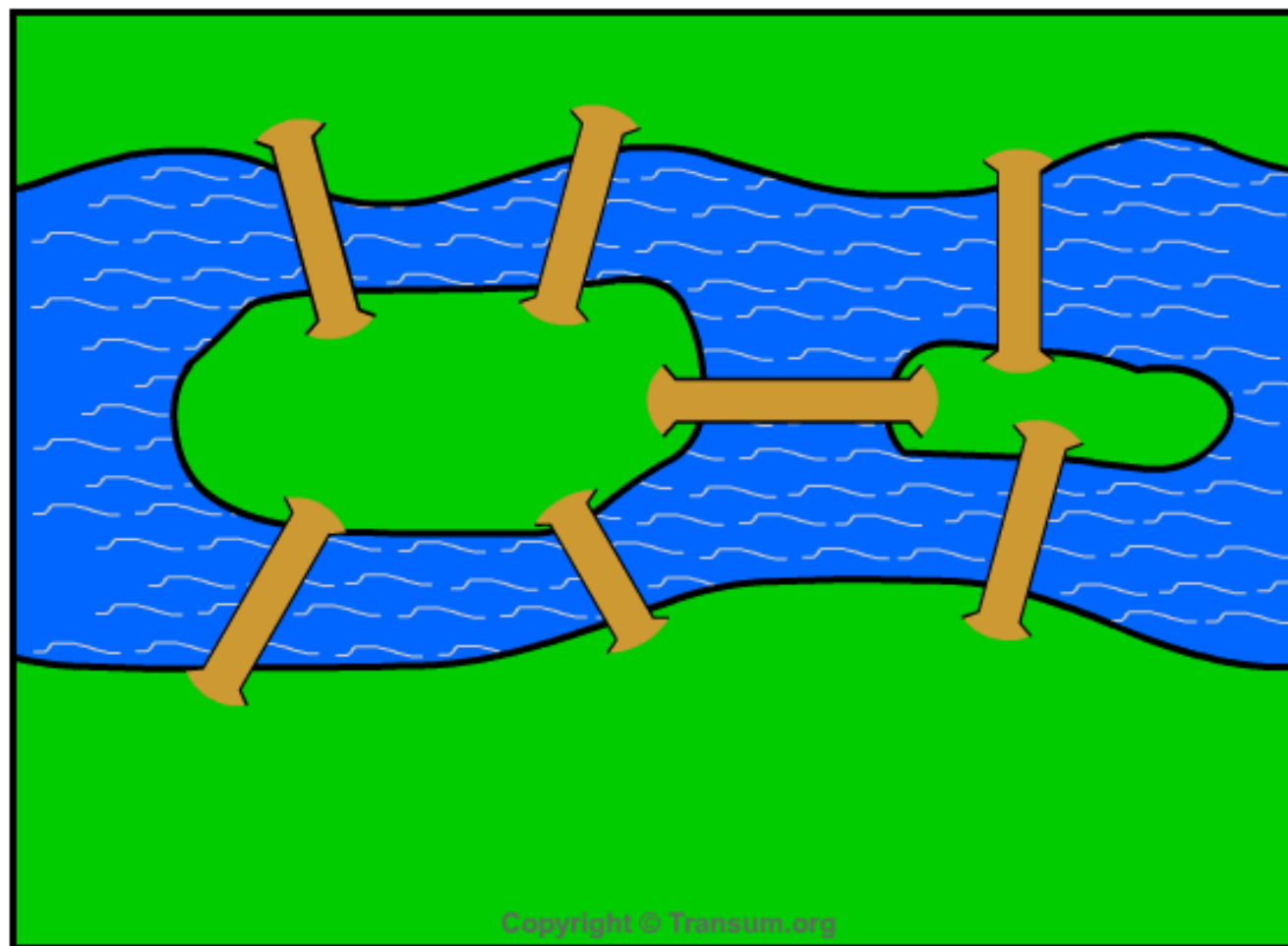
BRIDGE CROSSING

Here are the six islands of Transumberg connected by nine bridges.

Can you find a route, starting on any of the islands, that crosses each bridge once?



If you found that puzzle easy try this:



Can you find a route crossing each bridge once (and only once)?

Which town is this?

Task 11

- 1 **Expand and simplify** $(2x - 3)(3x + 1)$
- 2 **Simplify** $5\sqrt{3} \times \sqrt{3}$
- 3 Find the gradient of the line $2y - 8x = 6$
- 4 Find the value of $5x^2 + 10x$ when $x = -2$
- 5 Find the n th term of $-1, 8, 17, 26, \dots$
- 6 **Solve by factorising** $x^2 + x - 12 = 0$
- 7 **Evaluate** $16^{-\frac{1}{2}}$
- 8 **Solve** $7x - 2 > 19$
- 9 **Work out** $1.5 \times 10^6 + 1.55 \times 10^7$
- 10 Find the **gradient** of the line joining $(1, -3)$ and $(4, 12)$