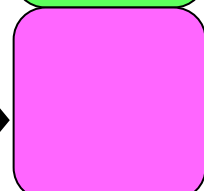
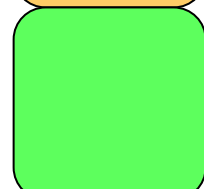
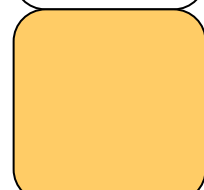
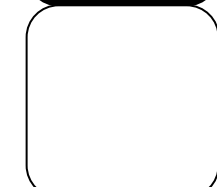


## Correlation Coefficients

-0.809   0.712  
0.998   -0.904  
-0.183   0.0314  
0.478   0  
-0.491   -1.41

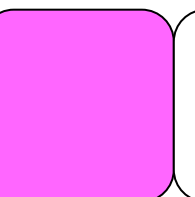
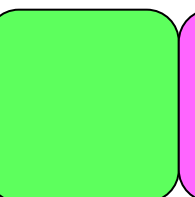
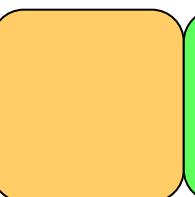
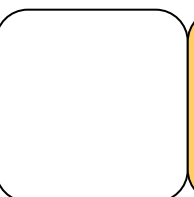
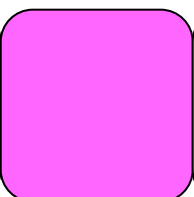
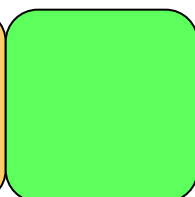
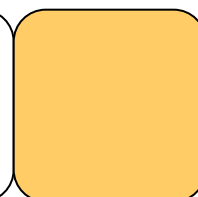
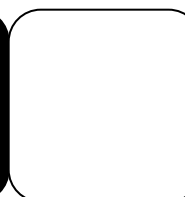
Go back  
to the  
Start



Start

WINNER!

Move  
back 5  
spaces



## Statopoly

### Bivariate Data Edition

Roll the dice and find the **RANGE** of the scores, this is how many spaces you can move forward (clockwise direction).

Another player should choose a card from the colour you land on and read the question, if you get the answer right you can stay where you are, if you get the answer wrong you must move back (anti-clockwise) the number of marks the question is worth

\*If you land on a large square you have a free pass for that turn\*

Miss  
a go

## Raw Data

|                     | A  | B  | C  | D  | E  | F  |
|---------------------|----|----|----|----|----|----|
| Temp (°C)           | 13 | 24 | 19 | 7  | 23 | 19 |
| Ice cream Sales (£) | 62 | 94 | 81 | 26 | 98 | 97 |
| Heating Bill (£)    | 87 | 11 | 14 | 98 | 9  | 12 |

|                | Z   | Y   | X   | W   | V   | U   |
|----------------|-----|-----|-----|-----|-----|-----|
| Hours          | 48  | 6   | 32  | 20  | 58  | 32  |
| RaceTime (hrs) | 1.4 | 6.2 | 2.4 | 2.1 | 1.8 | 2.1 |
| Exam %         | 68  | 7   | 57  | 50  | 84  | 63  |

Swap  
places with  
another  
player

## Formulae

$$r = \frac{S_{xy}}{\sqrt{S_{xx} \times S_{yy}}} = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\left\{ \sum (x_i - \bar{x})^2 \right\} \left\{ \sum (y_i - \bar{y})^2 \right\}}}$$

$$= \frac{\sum x_i y_i - \frac{(\sum x_i)(\sum y_i)}{n}}{\sqrt{\left( \sum x_i^2 - \frac{(\sum x_i)^2}{n} \right) \left( \sum y_i^2 - \frac{(\sum y_i)^2}{n} \right)}}$$