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EDG 500

Video 12

1. If it were true that two identical twins always had the same height, what would the scatterplot of the heights of several pairs of identical twins look like? What would be the correlation r between the heights?

If the twins with the same height will also have a positive correlation and will have a 1 correlation (perfect positive/linear).

2. What are all the possible values of the correlation coefficient r ?
The value of r will always be between -1 and 1 (1 is perfect positive).
3. If heredity plays a strong role in determining personality, will the correlation between twins raised together be about the same as, or much larger than, the correlation between twins raised apart?
The correlation will be much larger than the correlation of twins raised apart.

4. Is it easy to guess how large the correlation is by looking at a scatterplot?
Explain.
Yes, because the scatterplot's linear direction can provide insight on correlation.