IB Pre HL Scatter Plot WS

At a junior tournament, a group of young athletes throw a discus. The age and distance thrown are recorded for each athlete.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Athlete | A | B | C | D | E | F | G | H | I | J | K | L |
| Age (years) | 12 | 16 | 16 | 18 | 13 | 19 | 11 | 10 | 20 | 17 | 15 | 13 |
| Distance thrown (meters) | 20 | 35 | 23 | 38 | 27 | 47 | 18 | 15 | 50 | 33 | 22 | 20 |

1. Do you think the distance an athlete can throw is related to the person’s age? Why or why not?

2. Which variable in the table is the independent variable?

3. Make a scatter plot of the data on graph paper. Use an appropriate scale and include labels on axes.

4. What does your scatter plot reveal about the relationship between the distance an athlete can throw and the person’s age?

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