

Week 5 — Association: Monday exit ticket

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Name: _____

Date: _____

Instructions

Work through each item below. Write your final response in the space provided. Show enough work that another reader can follow your reasoning.

1. Four scatterplots of two numerical variables are described below. Each one has a correlation coefficient r drawn from the set $-0.70, 0.45, 0.06, 0.92$.

(A) Points lie almost exactly along an upward-sloping line; very little scatter around the trend.

(B) A clear downward trend; the cloud is fairly tight but not a perfect line. (C) A mild upward trend with substantial scatter; the cloud is wide. (D) A cloud with no apparent direction; values of one variable do not predict the other.

Match each scatterplot to one of the four r values. Write your answers as $A = \underline{\quad}$, $B = \underline{\quad}$, $C = \underline{\quad}$, $D = \underline{\quad}$.