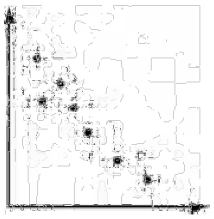
Name: _____ **Class:** _____ **Date:** _____ **ID: A**

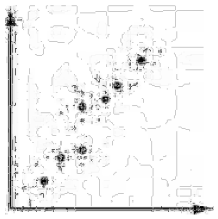
Scatter plots 01 Class Time Examples

____ 1. Which scatter plot is the best example of a positive correlation?

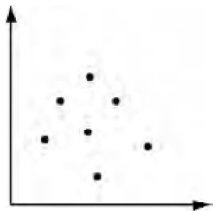
a.



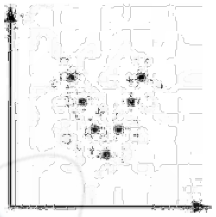
c.



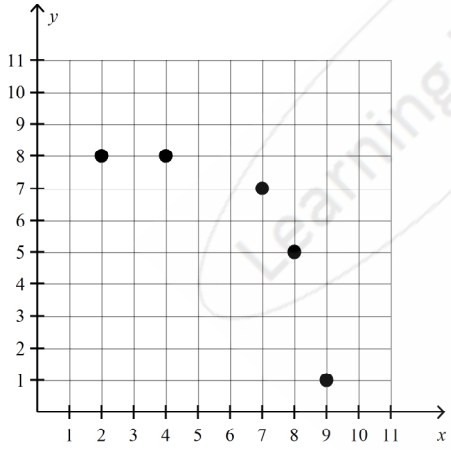
b.



d.

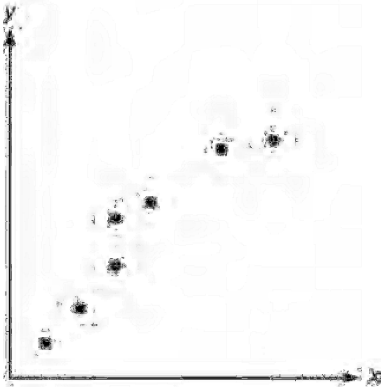


____ 2. Describe the correlation illustrated by the scatter plot.



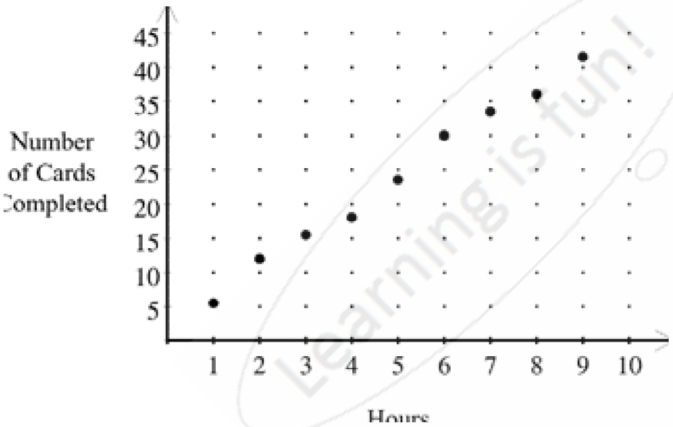
a. negative correlation
b. positive correlation
c. cannot determine
d. no correlation

____ 3. Which correlation best describes the scatter plot below?



a. None
b. Continuous
c. Negative
d. Positive

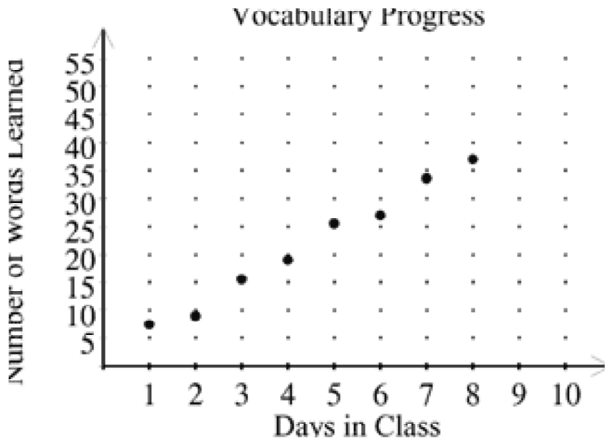
____ 4. Bianca is making home-made cards to send to friends and family and to sell at the local craft fair. This scatter plot shows the total number of cards she had made after each hour she worked on the task.



Using this information, what is the best prediction of the number of cards Bianca can make in 12 hours?

a. 39 b. 64 c. 74 d. 54

____ 5. Ruth is learning a foreign language. The scatter plot shows the total number of vocabulary words Ruth has learned at the end of each of her first eight days in class.



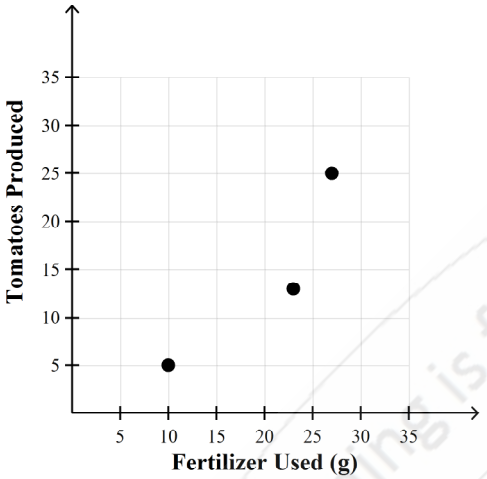
Assuming the trend shown by the scatter plot continues, which is the best prediction of the number of words Ruth will have learned by her 10th day in class?

a. 45 b. 60 c. 55 d. 30

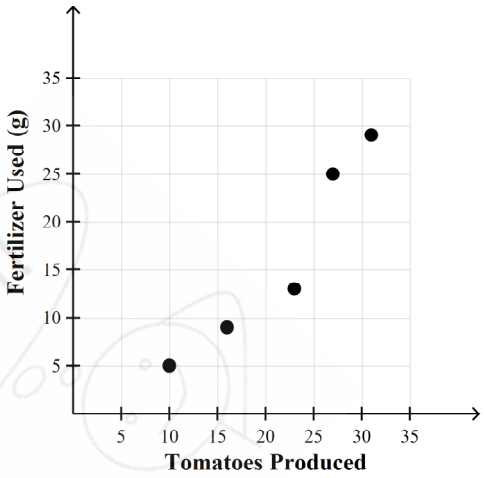
____ 6. The table below relates the amount of fertilizer used on a tomato plant to the number of tomatoes produced by the plant. Make a scatter plot of the data.

Fertilizer(g)	Number of Tomatoes Produced
23	13
16	9
31	29
27	25
10	5

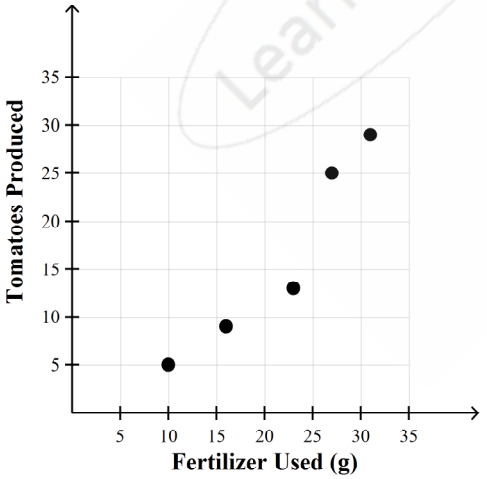
a.



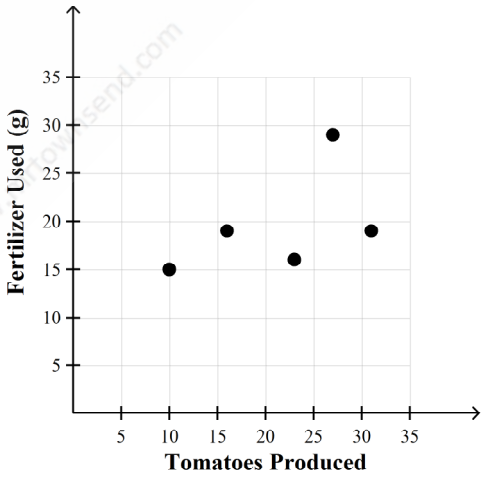
c.



b.

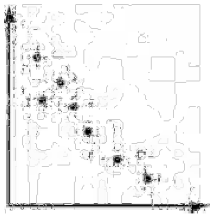


d.

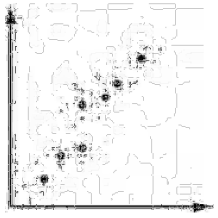


____ 7. Which scatter plot is the best example of a negative correlation?

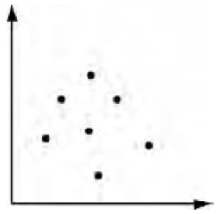
a.



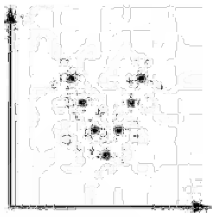
c.



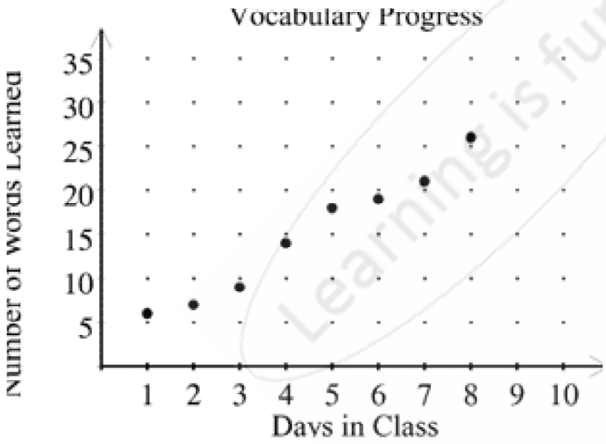
b.



d.



____ 8. Nick is learning a foreign language. The scatter plot shows the total number of vocabulary words Nick has learned at the end of each of his first eight days in class.



Assuming the trend shown by the scatter plot continues, which is the best prediction of the number of words Nick will have learned by his 10th day in class?

a. 15 b. 45 c. 30 d. 40

Scatter plots 01 Class Time Examples
Answer Section

1. ANS: C PTS: 1 NAT: NT.CCSS.MTH.10.9-12.S.ID.6
   DOK: DOK 1
2. ANS: A PTS: 1 REF: 10797736-4683-11df-9c7d-001185f0d2ea
   OBJ: Describing Correlations from Scatter Plots NAT: NT.CCSS.MTH.10.9-12.S.ID.6
   LOC: MTH.C.13.03.01.02.016 TOP: Scatter Plots and Trend Lines
   KEY: correlation | relationship | scatter plot DOK: DOK 2
3. ANS: D PTS: 1 NAT: NT.CCSS.MTH.10.9-12.S.ID.6
   DOK: DOK 2
4. ANS: D PTS: 1 REF: MALG0852 NAT: NT.CCSS.MTH.10.9-12.S.ID.6.a
   LOC: NCTM.PSSM.00.MTH.9-12.ALG.3.c | NCTM.PSSM.00.MTH.9-12.PRS.2
   TOP: Predict with Linear Models KEY: graph | estimate | scatter plot | predict
   DOK: DOK 2
5. ANS: A PTS: 1 REF: MALG0855 NAT: NT.CCSS.MTH.10.9-12.S.ID.6.a
   LOC: NCTM.PSSM.00.MTH.9-12.ALG.3.c | NCTM.PSSM.00.MTH.9-12.PRS.2
   TOP: Predict with Linear Models KEY: graph | estimate | scatter plot | predict
   DOK: DOK 2
6. ANS: B PTS: 1 REF: f9def93d-6ff9-11df-9c81-001185f0d2ea
   NAT: NT.CCSS.MTH.10.9-12.S.ID.6.a LOC: 12.4.1.e KEY: scatter plot | data set
   DOK: DOK 1
7. ANS: A PTS: 1 NAT: NT.CCSS.MTH.10.9-12.S.ID.6
   DOK: DOK 1
8. ANS: C PTS: 1 REF: MALG0855 NAT: NT.CCSS.MTH.10.9-12.S.ID.6.a
   LOC: NCTM.PSSM.00.MTH.9-12.ALG.3.c | NCTM.PSSM.00.MTH.9-12.PRS.2
   TOP: Predict with Linear Models KEY: graph | estimate | scatter plot | predict
   DOK: DOK 2