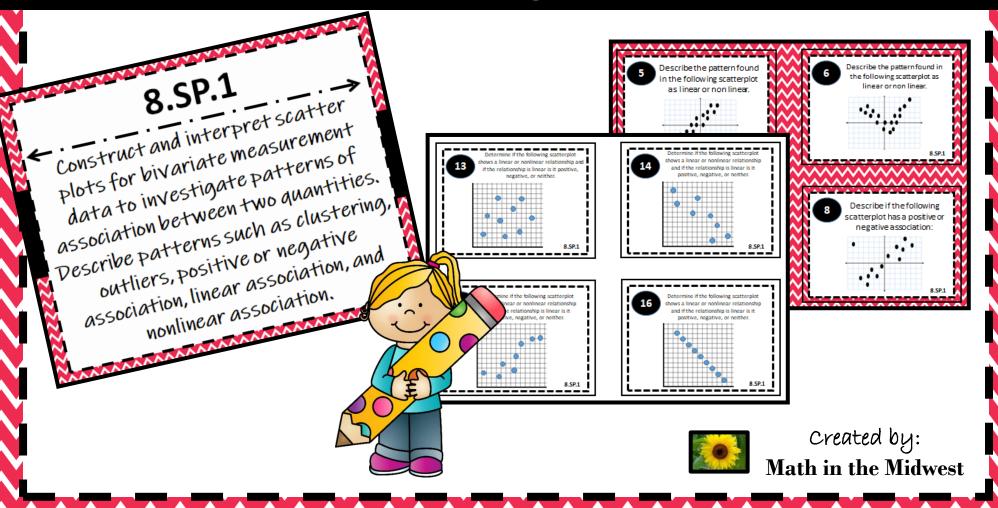
Statistics & Probability Task Cards 8.SP.1

20 Task Cards, Recording Sheet, Answer Sheet



8.SP.1

Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.

Determine the following vocabulary word that matches the definition:

Point that varies greatly from all other data points.

8.SP.1

Determine the following vocabulary word that matches the definition:

Point that are grouped closely together

8.SP.1

Determine the following vocabulary word that matches the definition:

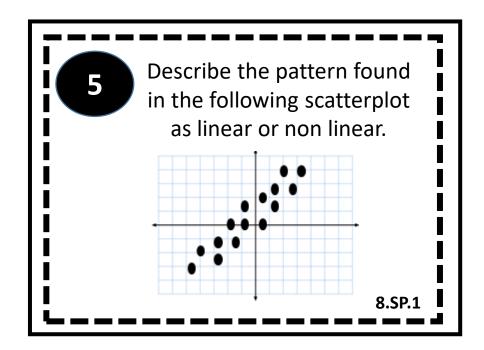
In a graphical format this type of association is connected in a straight line.

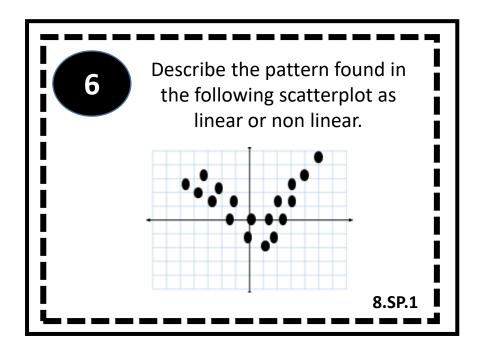
8.SP.1

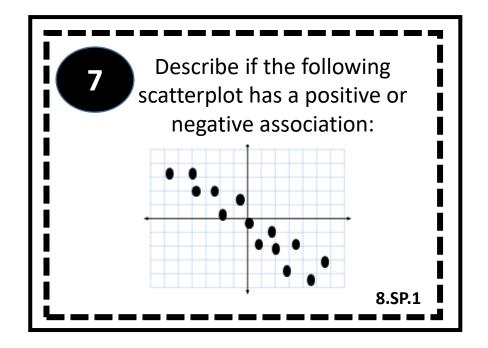
Determine the following vocabulary word that matches the definition:

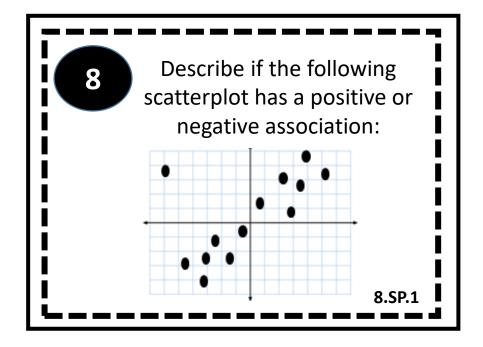
In a graphical format this type of association is not a straight line, could be a curve.

8.SP.1







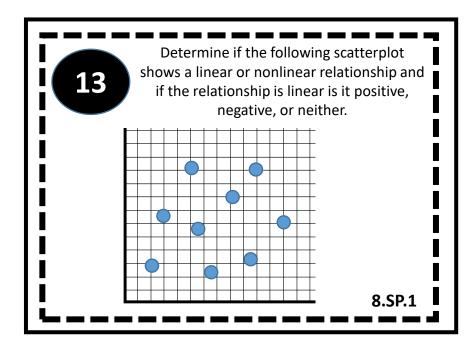


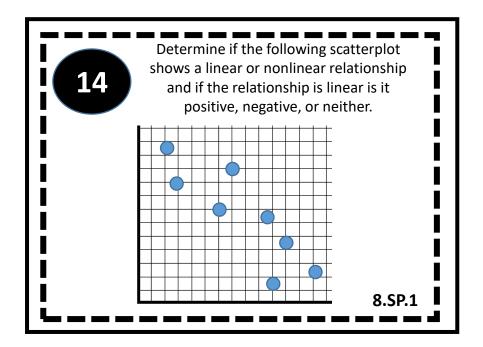
The table shows the amount of time 9 students spend doing homework per week and their overall GPA in school. What relationship seems to exist between time studied and the GPA? **Time** 3 5 9 **13** (hours) **GPA** 1.5 2.2 3.3 3.6 8.SP.1

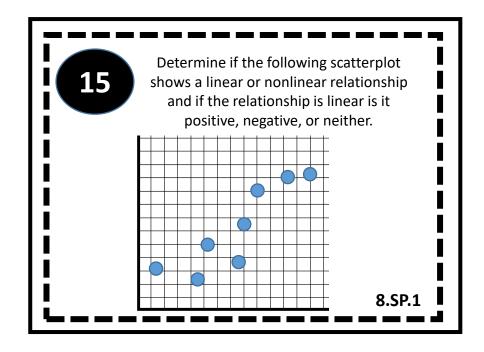
The table shows the amount of time 10 students spend doing homework per week and their overall GPA in school. Is there a potential outlier? If so, what is it? **Time** 1 4 8 12 (hours) 1.0 3.6 3.2 3.9 **GPA** 8.SP.1

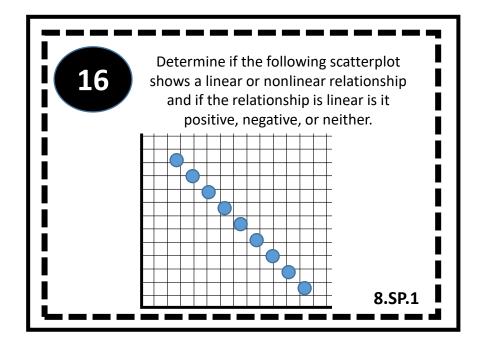
The table shows the amount of time baseball pitchers spend practicing per week and the average number of strikeouts they get per game.. What relationship seems to exist between time spent practicing and strikeouts per game? **Time** 2 5 8 12 (hours) **Strikeouts** 2 3 9 5 8.SP.1

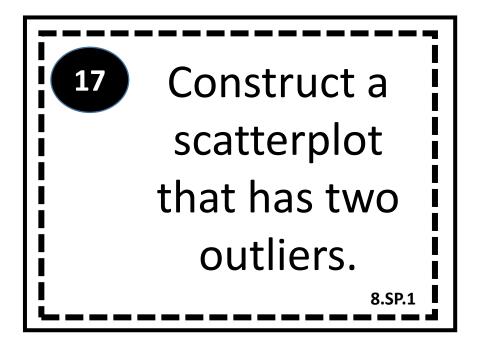
The table shows the amount of time baseball pitchers spend practicing per week and the average number of walks they give up per game. What relationship seems to exist between time spent practicing and walks per game? **Time** 2 8 12 (hours) 7 Walks 4 2 1 8.SP.1

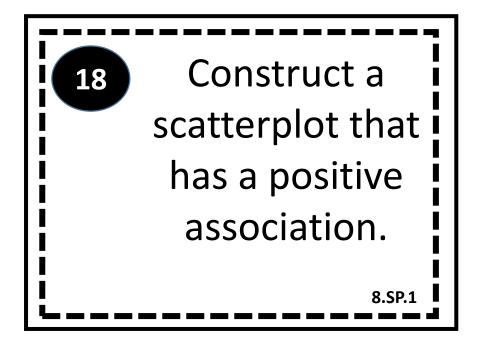


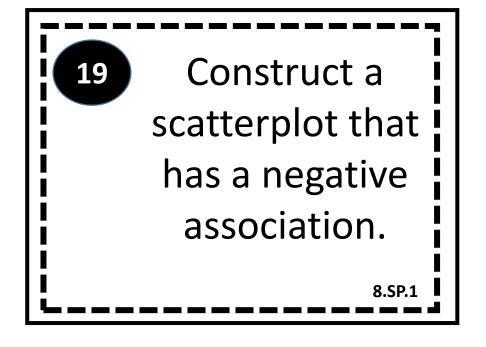


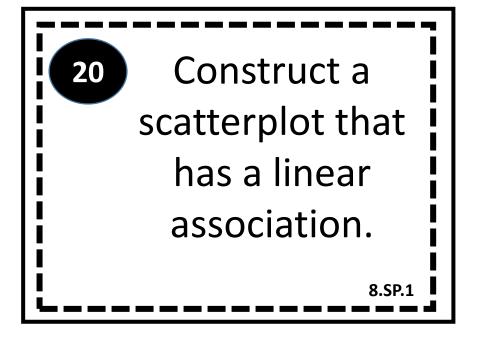


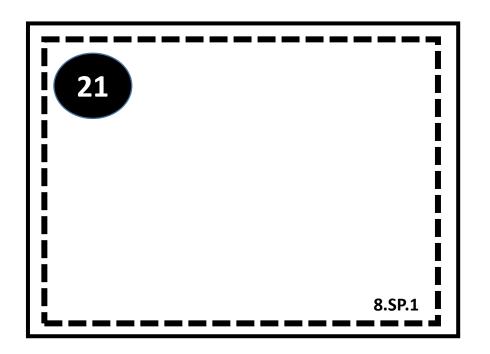


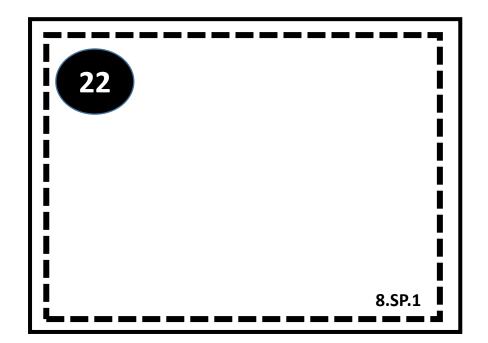


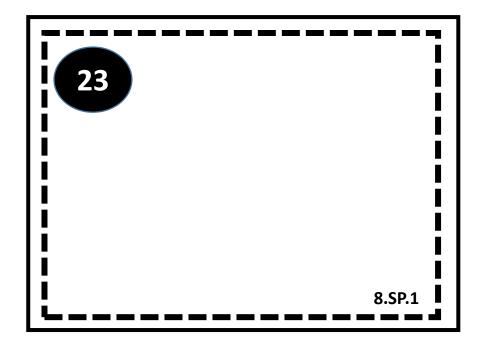


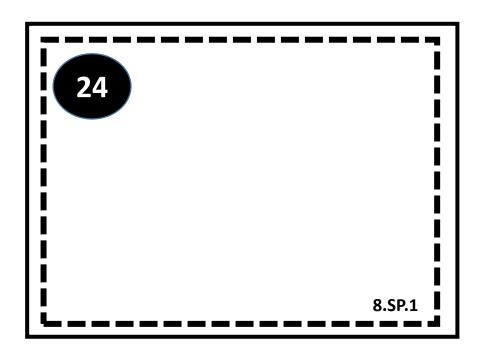












Determine the following vocabulary word that matches the definition:

Point that varies greatly from all other data points.

8.SP.1

Determine the following vocabulary word that matches the definition:

Point that are grouped closely together

8.SP.1

vocabulary word that matches the definition:

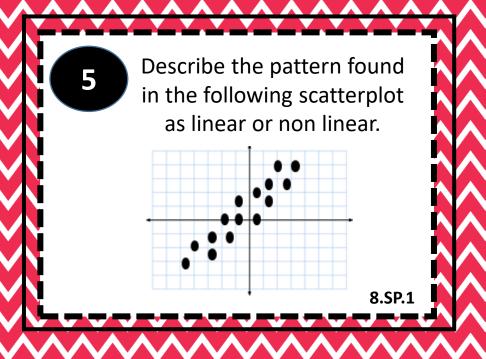
In a graphical format this type of association is connected in a straight line.

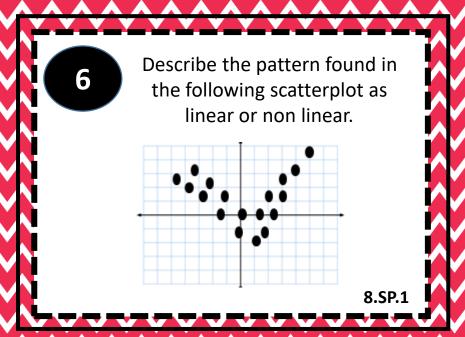
8.SP.1

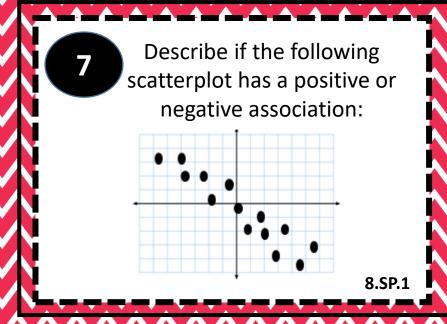
Determine the following vocabulary word that matches the definition:

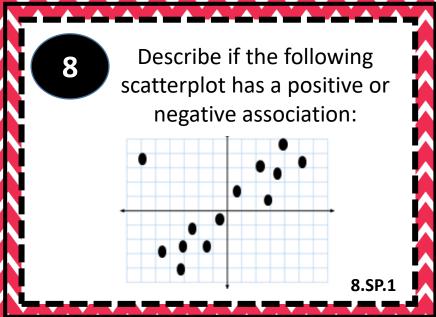
In a graphical format this type of association is not a straight line, could be a curve.

8.SP.1









The table shows the amount of time students spend doing homework per week and their overall GPA in school.

What relationship seems to exist between time studied and the GPA?

Time (hours)	3	5	9	13
GPA	1.5	2.2	3.3	3.6

8.SP.1

The table shows the amount of time students spend doing homework per week and their overall GPA in school. Is there a potential outlier? If so, what is it?

Time (hours)	1	4	8	12
GPA	1.0	3.6	3.2	3.9

8.SP.1

The table shows the amount of time baseball pitchers spend practicing per week and the average number of strikeouts they get per game..

What relationship seems to exist between time spent practicing and strikeouts per game?

Time (hours)	2	5	8	12
Strikeouts	2	3	5	9

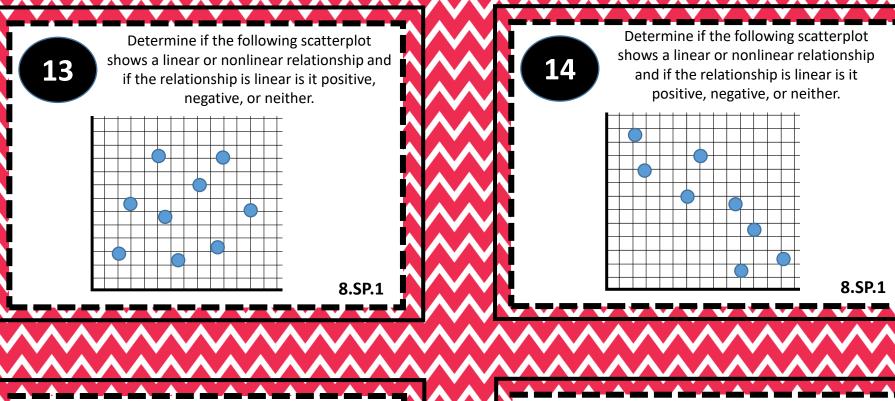
8.SP.1

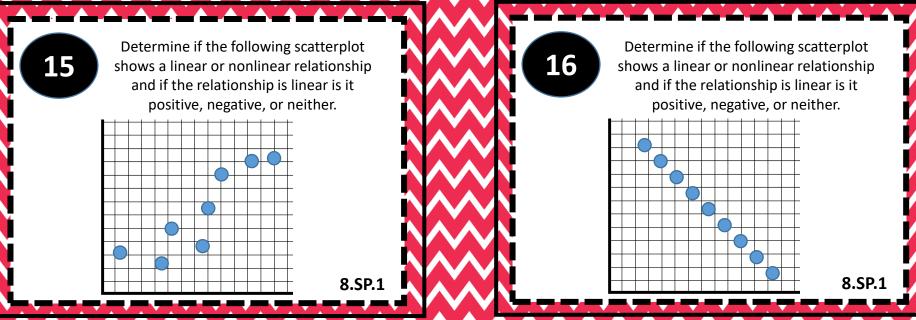
The table shows the amount of time baseball pitchers spend practicing per week and the average number of walks they give up per game.

What relationship seems to exist between time spent practicing and walks per game?

Time (hours)	2	5	8	12
Walks	7	4	2	1

8.SP.1





Construct a scatterplot that has two outliers.

Construct a scatterplot that has a positive association.

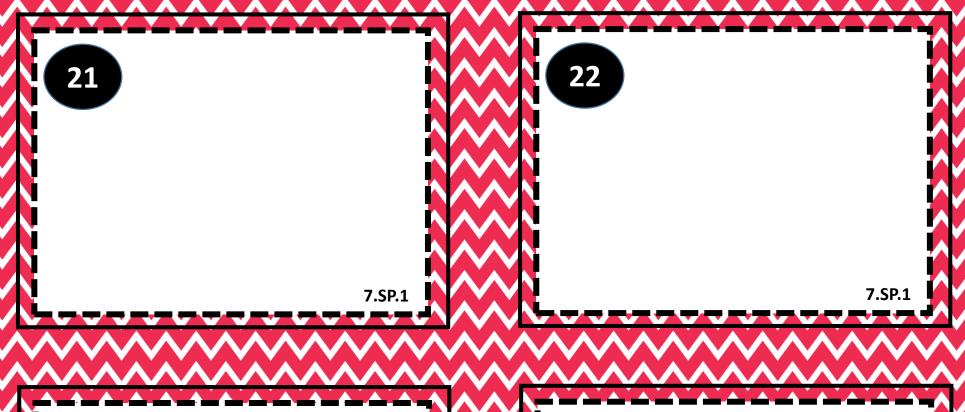
8.SP.1

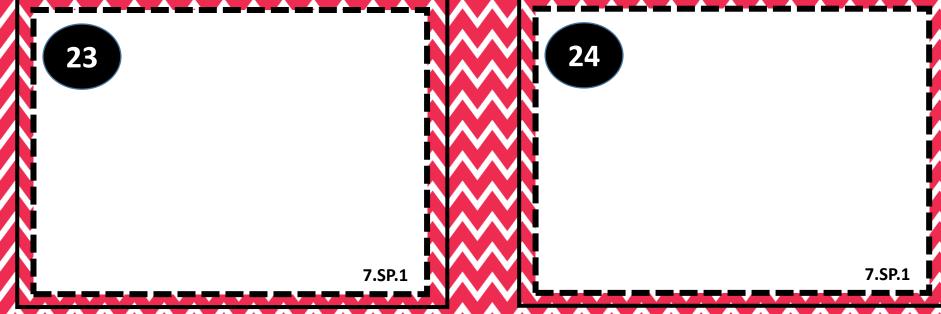
19 Construct a scatterplot that has a negative association.

8.SP.1

20 Construct a scatterplot that has a linear association.

8.SP.1





Name

Hour ____

8.SP.1 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	Outlier
2	Cluster
3	Linear Association
4	Nonlinear Association
5	Linear
6	Nonlinear
7	Linear
8	Linear
9	Positive
10	Yes, (4, 3.6)

Number	Answer
11	Positive
12	Negative
13	Nonlinear
14	Linear - Negative
15	Linear – Positive
16	Linear - Negative
17	Check students graphs
18	Check students graphs
19	Check students graphs
20	Check students graphs

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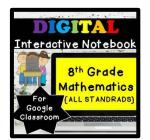


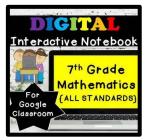


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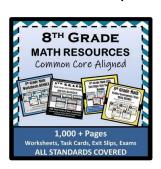








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