

Two-Variable Data Review

Grade: 12
Subject: MATH
Date:

1 Which correlation coefficient indicates a strong positive correlation between data?

A 0.89

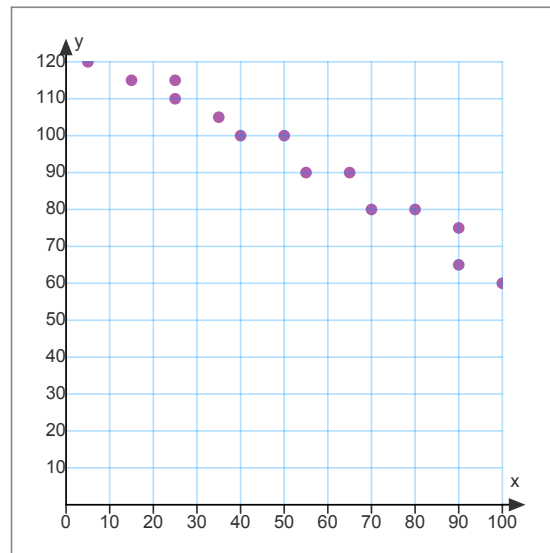
B -0.89

C 0.01

D 0.5

2 The data on the graph indicates which type of correlation?

- A Strong, positive
- B Weak, negative
- C Strong, negative**
- D Weak, positive



3 Which data is always on the x-axis?

A dependant

B independent

C one-variable

D integers

4 Which is the dependent variable in the following situation? A person's study time is compared to a person's mark.

A age

B marks

C person

D study time

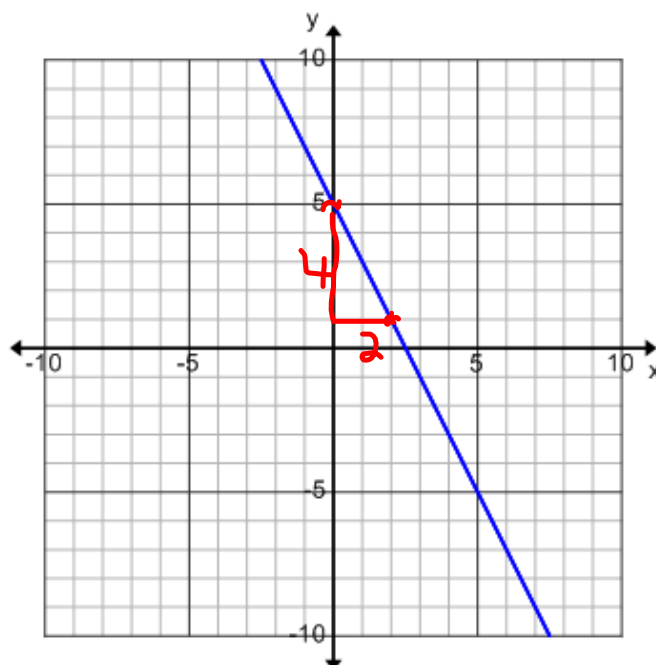
5 What is the y-intercept in the equation $y = 3x - 2$

6 Determine the y-intercept from the graph given.

$$y\text{-int} = 5$$

$$m = \frac{4}{2} \\ = -2$$

$$y = -2x + 5$$



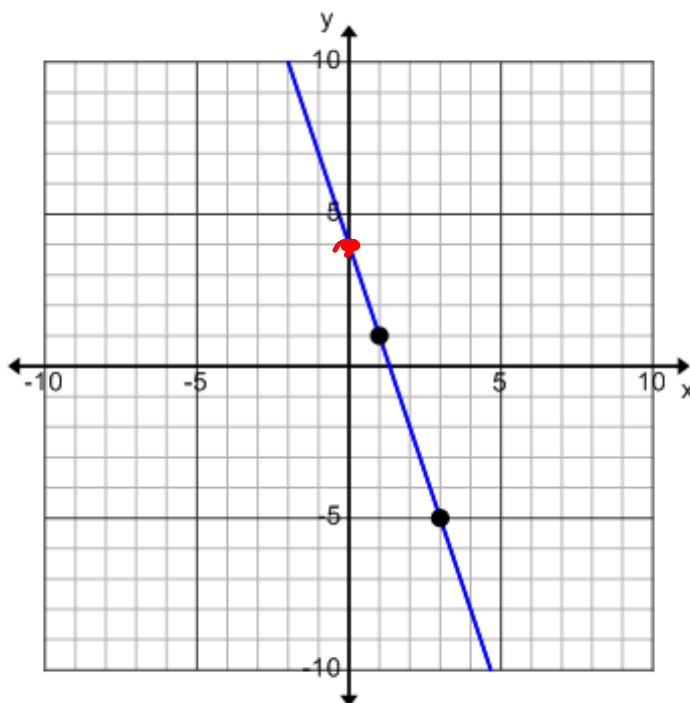
7 What is the equation of the line on the graph?

A $y = 3x + 4$

B $y = -3x - 4$

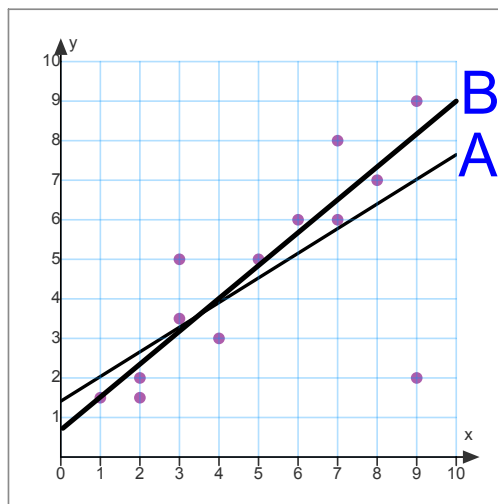
C $y = -3x + 4$

D $y = 1/3x - 4$



8 Which line of best fit is better for the data given?

A A
B B



9 Which of the following is usually used to display two-variable data?

A scatter plot

B bar graph

C circle graph

D none of the above

10 Which of the following describes two-variable data?

A The number of students in each grade

B the height of the students and how long it takes them to walk 1 mile

C The amount of precipitation recorded for each month

D The number of people who attend each hockey game in the regular season

11 Which situation described would likely have a negative correlation?

- A The amount of ice cream people buy and the amount of frozen yogurt they buy
- B the age of a person and the number of colds they have had
- C The age of a child and their height
- D The age of a car and the number of visits to a mechanic for the car

12 When there is a positive correlation between data it means there is a cause and effect relationship

True

False Not always

- 13 a) Determine the equation of the line of best fit and the correlation coefficient using the graphing calculator

Length of stride (cm)	Time to walk 100m (min)
100	30
120	24
140	18
125	22
115	26
145	17
130	19

Did in class

14 Using your graph, describe the correlation.

