



5-Minute Check

(over Lesson 5-2)

Transparency 5-3

1. Name the constant of variation for the equation of the line that passes through (2, 3).
2. Graph $y = -2x$.

Write a direct variation equation that relates x and y . Assume that y varies directly as x . Then solve.

3. If $y = 32$ when $x = 8$, find x when $y = 64$.
4. If $y = -24$, when $x = -3$, find y when $x = -2$.
5. A baggage train took 3.5 hours to travel 140 miles.
 - a. Write a direct variation equation to find the distance traveled for any number of hours.
 - b. Estimate how many hours it would take the train to travel 2000 miles.
6. **Standardized Test Practice** If y varies directly as x and $x = 6$ when $y = 16.5$, find the value of x when $y = 3.3$.

(A) 1.2

(B) 3.18

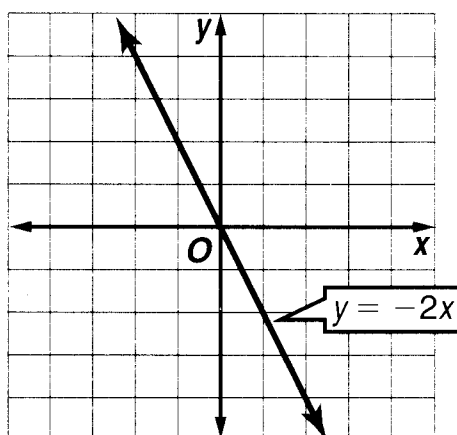
(C) 9.075

(D) 30

ANSWERS

1. $\frac{3}{2}$

2.



3. $y = 4x$; 16

4. $y = 8x$; -16

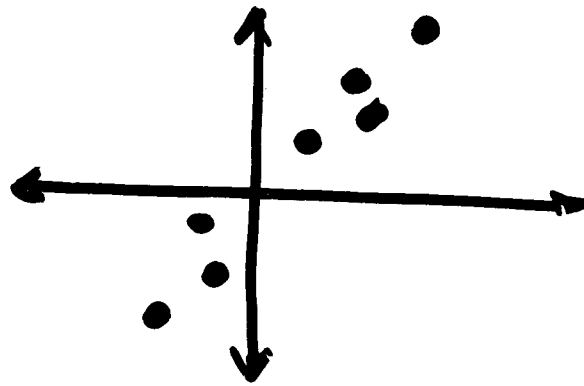
5a. $d = 40t$

5b. 50 h

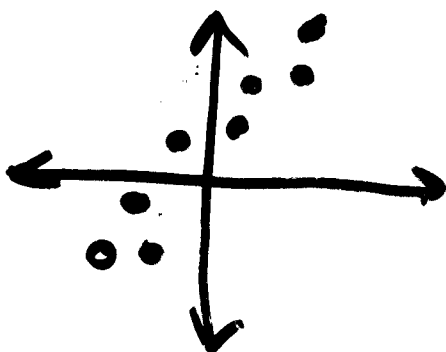
6. A

A graph of X-Y pairs as shown below is called a

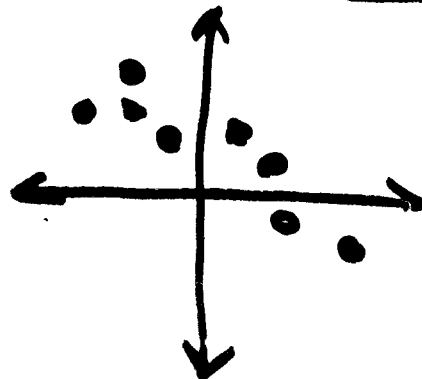
SCATTER PLOT



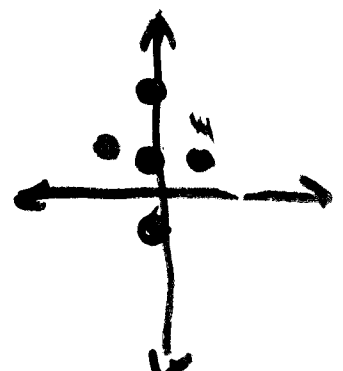
Sometimes, the X-Y pairs form what appears to be a line. This means there may be a ^{linear} relationship between the X-Y pairs. This is called a **CORRELATION**. It may be $\oplus$ or $\ominus$. The line drawn is called a **BEST FIT** line.



POSITIVE
CORRELATION



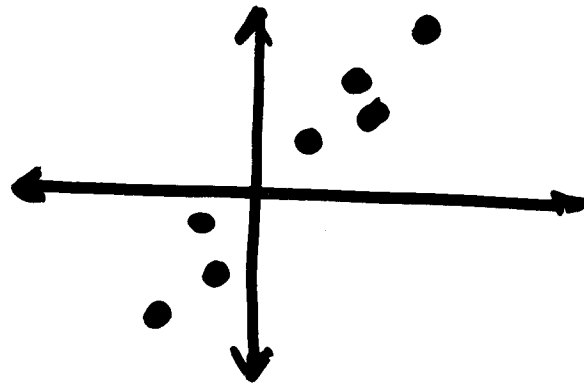
NEGATIVE
CORRELATION



NO

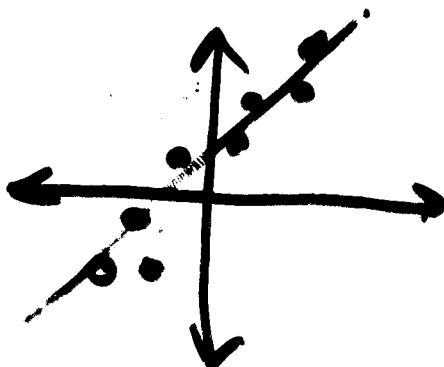
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SCATTER PLOT

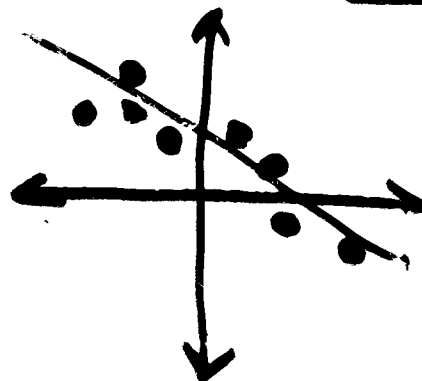


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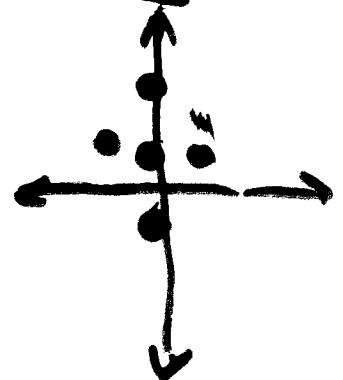
BEST
FIT
LINES



POSITIVE
CORRELATION



NEGATIVE
CORRELATION



NO