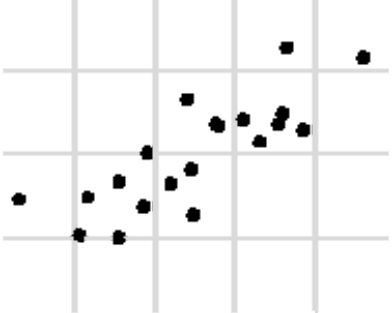
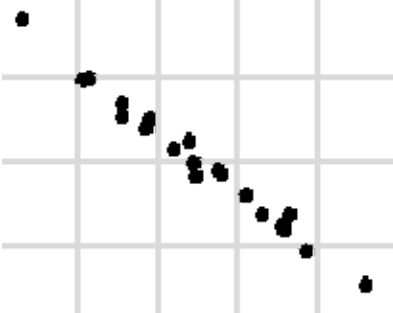
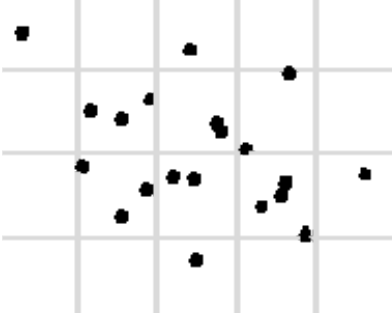
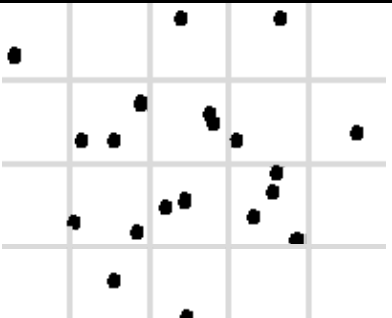
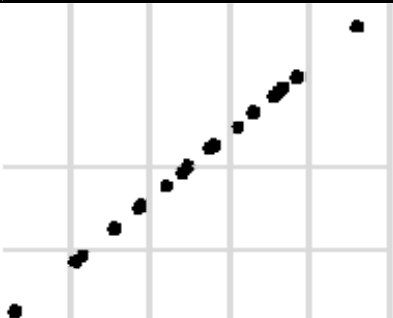
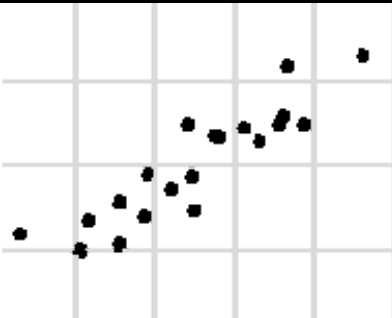
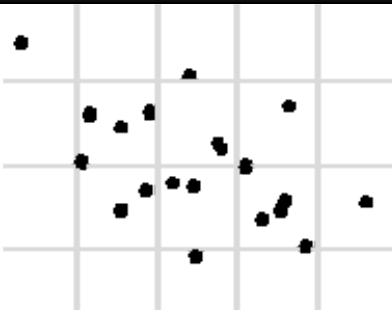
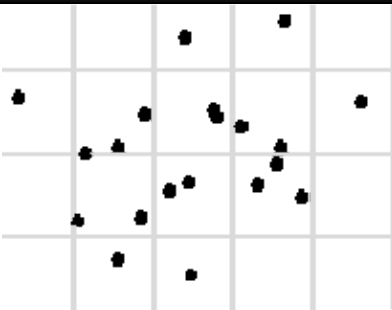
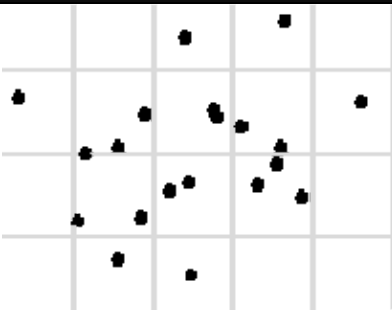


# More Scatterplot Examples

What is the most reasonable value for "r" (the correlation coefficient) in each of these scatterplots?

		
<p>1.    A.    .7       B.    .9       C.    .2       D.    -6</p>	<p>2.    A.    .4       B.    -.3       C.    .8       D.    -9</p>	<p>3.    A.    .3       B.    -.3       C.    3       D.    -3</p>
		
<p>4.    A.    0       B.    5       C.    -.7       D.    .8</p>	<p>5.    A.    -1       B.    0       C.    1       D.    100</p>	<p>6.    A.    .2       B.    .4       C.    .6       D.    .8</p>
		
<p>7.    A.    -1       B.    -.5       C.    .2       D.    .7</p>		<p>8.    A.    6       B.    -.7       C.    .2       D.    -1</p>

# Answers and Explanations

1. A → This is a positive correlation (the dots go mostly upward from left to right). Since it's positive,  $-.6$  can't be a right answer. They are packed fairly closely together (which is why  $.2$  is not a correct answer), but they aren't almost a line (which is why  $.9$  isn't a correct answer—since  $1$  would be a perfect line)..
2. D → This is a very strong negative correlation. Since it's negative, it has to be either "B" or "D". Since it's almost a perfect line,  $-.9$  is the only choice that makes sense.
3. B → This is a weak negative correlation. "C" and "D" are impossible, since "r" always has to be between  $-1$  and  $1$ . Since it's negative, the only possible choice is  $-.3$ .
4. A → It's hard to tell whether this is positive or negative, so zero makes the most sense. "B" is impossible (greater than  $1$ ), and both "C" and "D" would be strong correlations.
5. C → This is a perfect positive correlation (a perfect line going up from left to right).
6. D → This is a very strong positive correlation. Since the points are bunched fairly close to a line, the largest answer ( $.8$ ) is the best choice. Choice "D", by the way, is impossible.
7. B → This is a negative correlation, so it has to be either "A" or "B". It's not strong, but it is strong enough that you can tell it's definitely negative—which is why  $.5$  is a better choice than  $.1$  (which would be almost  $0$ ).
8. C → This is a very weak correlation. It's hard to tell whether it's positive or negative. That's why "B" (a strong negative correlation) and "D" (a perfect negative correlation) can't be the answer. "A" is also impossible (because it's bigger than  $1$ ), so by process of elimination "C" is the only choice left. It also makes sense because  $.2$  would be a very weak correlation.