

Name: _____

Date: _____

The correlation coefficient r runs -1 to 1 . Near $+1$ = strong; near 0 = weak. Sign = direction. Last two are challenge problems!

1. $r = 0.95$: strength and direction?

show your work

2. $r = -0.88$: strength and direction?

show your work

3. $r = 0.10$: strength?

show your work

4. Which is a STRONGER relationship: $r = 0.6$ or $r = -0.9$?

show your work

5. $r = -1$ means what exactly?

show your work

6. Can r be 1.5?

show your work

7. A near-zero r means a LINE is a good model. True or false?

show your work

8. Order by strength: $r = 0.3$, $r = -0.7$, $r = 0.5$.

show your work

9. $r = -0.98$ for hours-of-TV vs test-score (Trainer echo). Interpret fully in context. ★ CHALLENGE

show your work

10. Two studies: A has $r = 0.85$, B has $r = -0.85$. Which model predicts better, and how do their lines differ? ★ CHALLENGE

show your work