

Name: _____

Date: _____

TI-Nspire: enter data in Lists, run Linear Regression ($a+bx$). Read the equation and r . Use the Stats Quick Card! Last two are challenges.

1. LinReg gives $a = 3$, $b = 2$ in $y = a + bx$. Write the line.

show your work

2. A regression is $y = -56.97x + 2352.22$ (Trainer echo - Jan 2026 Q33). Slope?

show your work

3. Same line: predict y when $x = 10$.

show your work

4. Steps to run LinReg on the TI-Nspire: name lists, then which menu?

show your work

5. Regression $y = 4x + 20$. Interpret the slope 4 in context (cost per item).

show your work

6. Interpret the y-intercept 20 in $y = 4x + 20$ (a startup fee).

show your work

7. A line of best fit predicts 85 but the actual value was 80. Predicted vs actual?

show your work

8. Data pairs: (1,5),(2,7),(3,9),(4,11). Without a calculator, what is the exact line?

show your work

9. You run LinReg and get $r = 0.98$ ★ CHALLENGE
(Trainer echo - Aug 2025 Q12).
Direction and strength?

show your work

10. Data: (0,50),(1,45),(2,40),(3,35) ★ CHALLENGE
Find the exact regression line and
predict $x = 6$.

show your work