

Lesson 7 Practice Problems

1. Write with a single exponent:

a. $\frac{7^6}{7^2}$

b. $(11^4)^5$

c. $4^2 \cdot 4^6$

d. $6 \cdot 6^8$

e. $(12^2)^7$

f. $\frac{3^{10}}{3}$

g. $(0.173)^9 \cdot (0.173)^2$

h. $\frac{0.87^5}{0.87^3}$

i. $\frac{(\frac{5}{2})^8}{(\frac{5}{2})^6}$

2. Noah says that $2^4 \cdot 3^2 = 6^6$. Tyler says that $2^4 \cdot 4^2 = 16^2$.

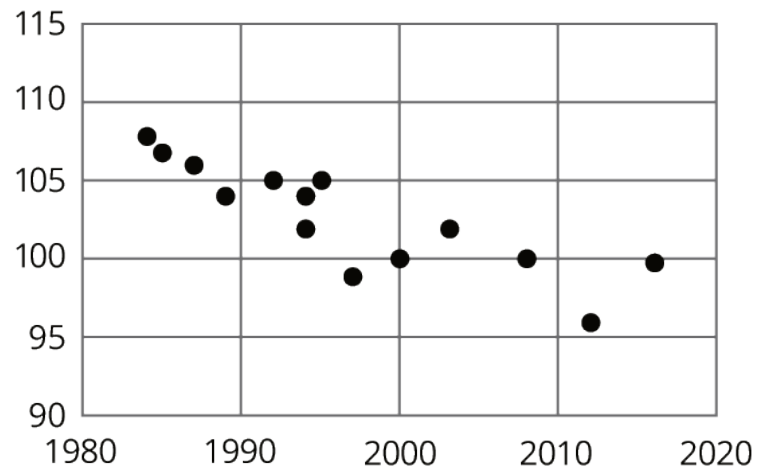
a. Do you agree with Noah? Explain or show your reasoning.

b. Do you agree with Tyler? Explain or show your reasoning.

3. Make a sketch of a linear relationship with a slope of 4 and a negative y -intercept. Show how you know the slope is 4 and write an equation for the line.

(From Unit 5, Lesson 7.)

4. Using the data in the scatter plot, what can you tell about the slope of a good model?



- A. The slope is positive.
- B. The slope is zero.
- C. The slope is negative.
- D. There is no association.

(From Unit 5, Lesson 21.)