Algebra 1	
Day 3: Comparing Sequences	

Unit 11: Comparing Functions

Practice

Practice	A coicemen	~~4

Block:

Name:

1. Edgar is getting better at math. On his first quiz he scored 57 points, then he scored 61 and 65 on his next two quizzes.

a. Write an explicit formula for the sequence. Explain where you found the numbers you are putting in the

b. If his scores continued to increase at the same rate, what will be his score on his 9th quiz?

2. The yearbook staff is unpacking a box of school yearbooks. The sequence 281, 270, 259, 248,... represents the total number of ounces that the box weighs as each yearbook is taken out.

- a. What is the weight of each yearbook?
- b. Create an explicit rule for the sequence.
- c. After 20 yearbooks were unpacked, how much did the box weigh?
- d. If the full box of yearbooks weighs 292 ounces, how many yearbooks were in the box?

3. A ball is dropped from a height of sameters. The table shows the height of each bounce, and the heights form a geometric sequence.

400 2 3 256

b. How high does the ball bounce on its 8th bounce? Round your answer to the negrest tenth.

0 = 460 (6.8)8-1

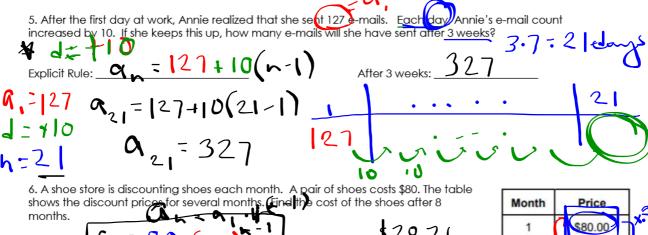
Algebra 1

Explicit Rul

Unit 11: Comparing Functions

Practice

- 4. Camden is collecting bugs for science class. The first day his sister helps him, and he finds 35 bugs. After day
- 2, he has 52 bugs. On day 3, he has 69 bugs. How many bugs will he have on the 15th day?



After 8 months:

1	\$80.00	הא
2	\$72.00	/ / a
3	\$64.80	•4

7. Breno got a job at a starting salary of \$8.00 per hour. His boss told him that if he works hard, he can get a raise each year. The table shows Breno's wages for the first years. Find Breno's hour wage after 6 years.

Explicit Rule: _ After 6 years: ___

Year	Hourly Wage (\$)
1	\$8.00
2	\$9.60
3	\$11.52