Sequence Match

Name _____ Date _____

Match each sequence with the expression that describes the relationship between the consecutive terms of the sequence. Some choices will not be used.

_____ 1. 2,4,6,8,10 ...

_____ 2. 1,3,9,27,81 ...

_____ 3. 45, 41, 37, 33, 29 ...

_____ 4. 11, 21, 31, 41, 51 ...

_____ 5. 10, 5, 2½ , 1¼ , 5/8 ...

_____ 6. 11, 3, –5, –13, –21 ...

_____ 7. 100, 20, 4, 0.8, 0.16 ...

_____ 8. 7, 10.5, 15.75, 23.625, 35.4375 ...

a. n+10
b. 0.3n
c. 5n
d. n + 5
e. n+2
f. 0.5n
g. n+(−2)
h. n+(−4)
i. 1.5n
j. 3n
k. n+(−8)
l. 2n
m. 0.2n

9. Write the letters of the problems above that are arithmetic sequences. _____

10. Write the letters of the problems above that are geometric sequences?_____

11. The _____ _____ in an arithmetic sequence can be found by subtracting the first term from the second term.

12. The _____ _____ in a geometric sequence can be found by dividing the second term by the first term.