

PAGE 4: Identifying Pattern Rules

1. What number was added to make the sequence?

a) 12, 17, 22, 27

add _____

b) 32, 35, 38, 41

add _____

c) 28, 34, 40, 46

add _____

d) 50, 57, 64, 71

add _____

e) 101, 106, 111, 116

add _____

f) 269, 272, 275, 278

add _____

2. What number was subtracted to make the sequence?

a) 58, 56, 54, 52

subtract _____

b) 75, 70, 65, 60

subtract _____

c) 320, 319, 318, 317

subtract _____

d) 191, 188, 185, 182

subtract _____

e) 467, 461, 455, 449

subtract _____

f) 939, 937, 935, 933

subtract _____

3. State the rules for the following patterns:

a) 419, 412, 405, 398, 391 subtract _____

b) 311, 319, 327, 335, 343, 351 add _____

c) 501, 505, 509, 513 _____

d) 210, 199, 188, 177, _____

e) 653, 642, 631, 620, 609 _____

f) 721, 730, 739, 748, 757, 766 _____

g) 807, 815, 823, 831 _____

h) 1731, 1725, 1719, 1713, _____

4. Use the first three numbers in the pattern to find the rule. Then fill in the blanks:

a) 52, 57, 62, 67, ,

The rule is: Start at 52 and add 5.

b) 78, 75, 72, , ,

The rule is: _____

c) 824, 836, 848, , ,

The rule is: _____

d) 1328, 1319, 1310, , ,

The rule is: _____

5. 5, 11, 17, 23, 29 ...

Tim says the pattern rule is: "Start at 5 and subtract 6 each time."

Jack says the rule is: "Add 5 each time."

Hannah says the rule is: "Start at 5 and add 6 each time."

a) Whose rule is correct? _____

b) What mistakes did the others make? _____