

1. Continue the following sequences by adding the number given.

a) (add 3) 31, 34, _____, _____, _____

b) (add 5) 70, 75, _____, _____, _____

c) (add 2) 24, 26, _____, _____, _____

d) (add 10) 50, 60, _____, _____, _____

e) (add 4) 31, 35, _____, _____, _____

f) (add 9) 11, 20, _____, _____, _____

g) (add 6) 10, 16, _____, _____, _____

h) (add 7) 70, 77, _____, _____, _____

2. Continue the following sequences, subtracting by the number given.

a) (subtract 2) 14, 12, _____, _____, _____

b) (subtract 3) 15, 12, _____, _____, _____

c) (subtract 5) 75, 70, _____, _____, _____

d) (subtract 3) 66, 63, _____, _____, _____

e) (subtract 4) 46, 42, _____, _____, _____

f) (subtract 7) 49, 42, _____, _____, _____

g) (subtract 3) 91, 88, _____, _____, _____

h) (subtract 5) 131, 126, _____, _____, _____

BONUS:

3. Create a pattern of your own. After writing down the pattern in the blanks, give the rule you used.

_____, _____, _____, _____, _____ My rule: _____

4. Which one of the following sequences was made by adding 3? Circle it.

HINT: Check all the numbers in the sequence.

a) 3, 5, 9, 12

b) 3, 6, 8, 12

c) 3, 6, 9, 12

5. 72, 64, 56, 48, 40...

Zannat says this sequence was made by subtracting 7 each time.

Faruq says it was made by subtracting 8.

Who is right? Explain.

PA4-10: Identifying Pattern Rules

1. What number was added each time to make the pattern?

a) 2, 5, 8, 11 add _____

b) 3, 6, 9, 12 add _____

c) 15, 17, 19, 21 add _____

d) 44, 46, 48, 50 add _____

e) 41, 46, 51, 56 add _____

f) 19, 22, 25, 28 add _____

g) 243, 245, 247, 249 add _____

h) 21, 27, 33, 39 add _____

i) 15, 18, 21, 24 add _____

j) 41, 45, 49, 53 add _____

2. What number was subtracted each time to make the pattern?

a) 18, 16, 14, 12 subtract _____

b) 35, 30, 25, 20 subtract _____

c) 100, 99, 98, 97 subtract _____

d) 41, 38, 35, 32 subtract _____

e) 17, 14, 11, 8 subtract _____

f) 99, 97, 95, 93 subtract _____

g) 180, 170, 160, 150 subtract _____

h) 100, 95, 90, 85 subtract _____

i) 27, 25, 23, 21 subtract _____

j) 90, 84, 78, 72 subtract _____

3. State the rule for the following patterns.

a) 119, 112, 105, 98, 91 subtract _____

b) 1, 9, 17, 25, 33, 41 add _____

c) 101, 105, 109, 113 _____

d) 110, 99, 88, 77, _____

4. Find the rule for the pattern. Then continue the pattern by filling in the blanks.

12, 17, 22, _____, _____, _____

The rule is: _____

5.

5, 8, 11, 14, 17...

Keith says the pattern rule is: "Start at 5 and subtract 3 each time."

Jane says the rule is: "Add 4 each time."

Molly says the rule is: "Start at 5 and add 3 each time."

a) Whose rule is correct? _____

b) What mistakes did the others make? _____