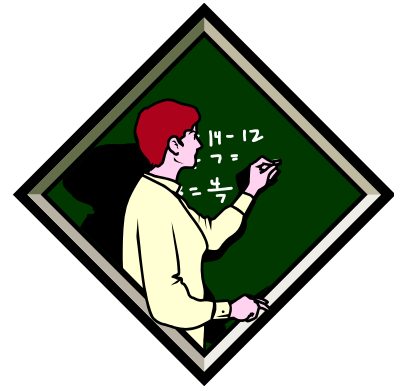


Algebraic Expressions in Patterns Worksheet

Name _____ Date _____



Continue each pattern with the next two numbers.

1. 7, 14, 8, 16, 10, 20, 14, _____, _____

2. 11, 13, 16, 20, 25, 31, 38, _____, _____

Use the pattern below for questions 3 -5.

3, 8, 13, 18, 23...

3. What are the next two terms in the sequence?
4. Create a table to determine the algebraic expression for this sequence.
5. What would the 20th term be in this sequence?

Use the pattern below for questions 6 - 8.

6, 13, 20, 27,

6. What are the next two terms in the sequence?
7. Create a table to determine the algebraic expression for this sequence.
8. What would the 15th term be in this sequence?

9. Look for a pattern. Give the rule for the table that tells the relationship between x and y .

x	2	4	6	8	9
y	10	16	22	28	31

- A. Multiply X by 10 to get Y
- B. Multiply X by 2; then subtract 1
- C. Multiply X by 3; then add 4
- D. Multiply X by 5

10. Look for a pattern. Give the rule for the table that tells the relationship between a and b .

a	1	2	3	4	5
b	2	4	6	8	10

- A. $b = a - 2$
- B. $b = a - 1$
- C. $b = 2a$
- D. $b = 3a - 6$

11. If the bells at Texas Middle School ring at 7:55, 8:40, 9:25, 10:10 ... Explain how you can find when the next bell will ring.