

**Algebra 1**  
**Sequences Preview**

Name \_\_\_\_\_

**Simplify the expression.**

1. $1+5x+x-6$	2. $11a+12b+11a-15b$
3. $7b+6b-b+10b$	4. $6-7n-2n-8$
5. $-3(8-b)$	6. $\frac{1}{3}(9x-18)$
7. $(-5y-2)(-6)$	8. $9(2x+3y-7)$
9. $-6(1-3x)+2x$	10. $-3+(8+4p)2$
11. $4(5x+9)-3(-4x+1)$	12. $\frac{1}{2}(14x-16)+8(3-5x)$

**Fill in the missing terms of the sequence.**

13. 10, 25, 40, 55, _____, _____, _____	14. 7, 14, 28, 56, _____, _____, _____
15. 5, -10, 20, -40, _____, _____, _____	16. 24, 20, 16, 12, _____, _____, _____
17. 8, 12, 18, 27, _____, _____, _____	18. 7.5, 75, 750, _____, _____, _____
19. 100, 50, 25, _____, _____, _____	20. 1, 3, 6, 10, _____, _____, _____