Name:	Period: Date:	
Worksheet E-1 Translating Expressions / Inductive Reasoning Unit E		
Write each phrase as an algebraic expression.		
1. fifteen increased by t	8. A number divided by -12	
2. five years older than Luis	9. 7 less than <i>m</i>	
3. nine dollars less than j	10. the quotient of 3 and \mathbf{y}	
4. a number less six	11. the total of 5 and \mathbf{c}	
5. the product of r and 8	12. the difference of 6 and \mathbf{r}	
6. twice as many oranges	13. <i>n</i> divided by 2	
7. Emily's age divided by 3	14. the product of k and 9	
Write each sentence as an algebraic equation.		
15. The sum of a number and four is -8 .		
16. Ten times the number of students is 280 .	19. Twice as many points as Bob would be 1 8 points.	8
17. Ten inches less than her height equals 26 .	20. After dividing the money 5 ways, each person got \$ 67 .	
18. Seven more than twice his age is 51.		
Find the pattern in each sequence, name the next 3 numbers, and state the rule for finding the next numbers in the sequence.		
1) 18, 23, 28, 33,,	2) 3, 6, 12, 24,,,	
Rule:	Rule:	

3) 1, 3, 9, 27, _____, _____

Rule: _____

Find the pattern and name the next three numbers.

- **4)** 4, 5, 7, 10, _____, _____
- **5)** 5, 10, 20, 40, _____, ____, ____
- **6)** $\frac{1}{10}, \frac{1}{20}, \frac{1}{30}, \dots, \dots, \dots$
- **7)** 0, -2, 4, -6, _____, ____
- **8)** $\frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \dots, \dots$
- **9)** 5.8, 5.6, 5.4, _____, ____, ____
- **10)** 6, 7, 14, 15, 30, 31, _____, ____, ____
- **11)** -33, -44, -55, _____, ____, ____

Draw the next figure in the pattern.

12)





