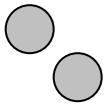
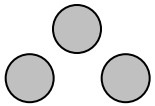
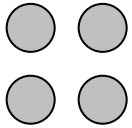
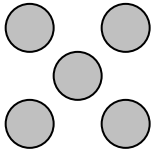
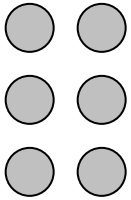
Think Dots

Title: Algebra Level 1

 a, b, c and d each represent a different value. If a = 2, find b, c, and d. a + b = c a - c = d a + b = 5	 Explain the mathematical reasoning involved in solving card 1.	 Explain in words what the equation 2x + 4 = 10 means. Solve the problem.
 Create an interesting word problem that is modeled by 3x – 6 = 24	 Diagram how to solve 2x = 8.	 Explain what changing the “ 3 “ in 3x = 9 to a “2” does to the value of x. Why is this true?

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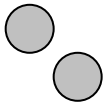
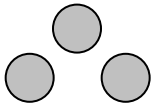
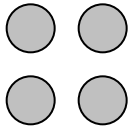
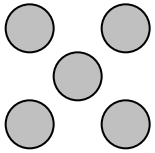
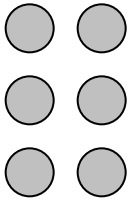
Title: Algebra Level 2

 a, b, c and d each represent a different value. If a = 1, find b, c, and d. a + b = c b - b = d c + a = -a	 Explain the mathematical reasoning involved in solving card 1.	 Explain how a variable is used to solve word problem.
 Create an interesting word problem that is modeled by 2x + 12 = 4x + 2 Solve the problem.	 Diagram how to solve 3x + 1 = 10.	 Explain why x=4 in 2x = 8, but x=16 in ½ x = 8. Why does this make sense?

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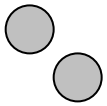
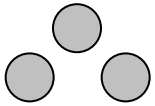
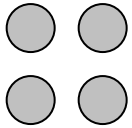
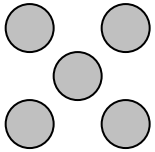
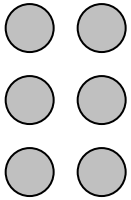
Think Dots

Title: Algebra Level 3

 a, b, c and d each represent a different value. If a = 4, find b, c, and d. a + c = b b - a = c cd = -d d + d = a	 Explain the mathematical reasoning involved in solving card 1.	 Explain how a variable in mathematics. Give examples.
 Create an interesting word problem that is modeled by. 2x + 4 = 4x - 10. Solve the problem.	 Diagram how to solve 3x + 4 = x + 12.	 Given ax = 15, explain how x changes if a is large or a is small in value.

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