## Patterning & Algebra

Grade 4 Diagnostic

Name:

Diagnostic - checking to see what they already know (Gr. 3 expectation)	Target Met	Still Progressing
Determine, through investigation, the inverse relationship between addition and subtraction		
2. Determine, the missing number in equations involving addition and subtraction of one- and two-digit numbers, using a variety of tools and strategies		
Identify, through investigation, and use the associative property of addition to facilitate computation with whole numbers		

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b. 
$$4 + 20 = 24$$

c. 
$$15 - 8 = 7$$

2. What is the missing number? Tell how you know.

a. 5 + 3 = 
$$\blacksquare$$
 + 2

2. What is the missing number? Tell how you know.

a. 22 + 35 = 
$$\blacksquare$$
 + 36

b. 53 - 
$$\blacksquare$$
 = 55 - 19

3. Write an equation to show how you might make each addition easier. For example, 7 + 5 + 3 = 10 + 5.

3. Circle the expression that are worth the same.