

How Many Marbles?

NCTM Standards 1, 2, 5, 6, 7, 8, 9, 10

Complete each table.

1 Suppose you have 20 marbles.

If you put ■ marbles into Box A,	then you put ■ marbles into Box B.
15	5
5	
10	
11	
3	
0	
	18
	6
4	
	7
	12

2 Suppose you have 50 marbles.

If you put ■ marbles into Box A,	then you put ■ marbles into Box B.
10	
20	
	25
	48
	9
45	
12	
	26
17	
	13
0	

- 3** Lily invites 25 friends to her house to play marble games. She invites 12 boys. How many girls does Lily invite? Explain how you found your answer.

Suppose that you have 12 marbles, and put them into Box A and Box B. Write all the possible addition sentences for the following:

$$\boxed{} + \boxed{} = \boxed{}$$

Box A Box B Total Marbles

4

$\boxed{} + \boxed{} = \boxed{}$	$\boxed{} + \boxed{} = \boxed{}$	$\boxed{} + \boxed{} = \boxed{}$
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5 How do you know you wrote all the possible addition sentences?

6 **Challenge** Jill has some number of marbles. She puts them into the two boxes, and graphs the point that shows the number of marbles in each box.

A How many marbles does Jill have?

_____ marbles

B Find another arrangement of the marbles in the two boxes and graph the point.

