Name _____ Date _____

INTEGERS WITH COUNTERS · LESSON 1

Counters and Zero Pairs

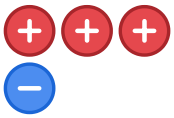
We show integers with two-colour counters. A red and a blue counter together are worth 0. We call them a **zero pair**.

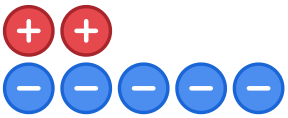
red counter = +1 blue counter = −1 zero pair = 0

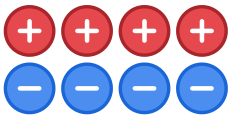
1 Which number do the counters show? First circle the zero pairs.

a)  = ☐

b)  = ☐

c)  = ☐

d)  = ☐

e)  = ☐

f)  = ☐

2 Draw counters to show each number. Draw a circle with − for a blue counter and a circle with + for a red counter.

5 −4 0 −7

3 The same number can be shown in many ways. Show each number in three different ways.

−2

3

4 If you flip every counter, you get the **opposite number**. Complete the table.

NUMBER	COUNTERS	OPPOSITE
4		
−3		
		
0		

5 True or false? Circle T or F.

a) Three red and three blue counters show the number 0. **T F**

b) Adding a zero pair changes the value. **T F**

c) The number −5 can be shown with 7 counters. **T F**

d) Five blue and two red counters show the number 3. **T F**

e) The opposite of 0 is 0. **T F**

Remember

A red and a blue counter together make a _____. Its value is _____. We may _____ and _____ zero pairs without changing the value.