Exercise on Lesson 8

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In problems 1-5 assume the following:
int z = 23, x = -109;
double c = 2345.19, v = 157.03;
boolean a = false, s = true;
 1. Boolean gus = (x > 0) \&\& (c = = v);
    System.out.println(!gus);
    false
2. System.out.println(a | | s);
    true
3. System.out.println( ((-1 * x) > 0) \&\& !a);
    true
4. boolean r = z = = x;
    System.out.println( r | | false );
    false
5. System.out.println( z!=x );
    true
6. Fill in the following charts.
                        (!a && b)
                                                                  (a | | !b)
                b
                                                          b
        a
                                                  a
        false false
                                                  false
                                                          false
        false
                                                  false
               true
                                                          true
        true
                false
                                                  true
                                                          false
        true
                true
                                                  true
                                                          true
                        (!a && b)
                b
                                                          b
                                                                  (a | | !b)
        a
                                                  a
```

false false

true

true

false

true

true

false

true

false

false false

false

false

true

true

false true

false true

false

true

true

true

7.	Assume b , p , and q are $booleans$. Write code that will assign to b the result of AND-ing p and q .
	b = p && q;
8.	Assign to the <i>boolean</i> variable w the result of OR-ing the following two things: A test to see if x is positive: A test to see if y equals z :
	$w = x > 0 \mid \mid y = = z;$
9.	What are the two possible values of a boolean variable?
	true false
10.	Write a test that will return a true if a is not equal to b . Assume a and b are integers. Store the result in $boolean\ kDog$.
	kDog = a != b;
11.	Write the answer to #10 another way.
	kDog = !(a = = b);
12.	What is the Java operator for boolean AND-ing ?
	&&
13.	What is the Java operator for boolean OR-ing ?
	H
14.	System.out.println(true && false) ((true && true) false));
	true
15.	System.out.println(true && true false);
	true
16.	System.out.println(true true && false);
	true

17. System.out.println(false \parallel true && false);

false

18. System.out.println(false && true \parallel false);

false