

## Making change with two coins

Note that we can always make change for 0 cents (just give no coins).

Putting this together:

- ▶  $Change[0]$  is true.
- ▶  $Change[x]$  is false for  $x = 1, 2, 3, 4$
- ▶ If  $x \geq 5$ , then  $Change[x]$  is true if and only if at least one of  $Change[x - 7]$  or  $Change[x - 5]$  is true.

Also, we can use the calculation to figure out how to give change!