Write a Matlab function $MCmeasure$ to these specifications:

**Input:**
- $f$ the name of a real-valued function defined on $[a,b]$,
- $t$ a real threshold value,
- $a$ a real value to be the lower limit of an interval,
- $b$ a real value to be the upper limit of an interval, and
- $n$ the number of random values to use.

**Output:** $measure$ the measure of the interval $[a,b]$ of those values of $x$ such that $f(x) \geq t$.

**Scalar Solution:**

```matlab
function measure = MCmeasure (f, t, a, b, n)
    fun = fcnchk (f);
    x = a + (b-a)*rand (n,1);
    sum = 0;
    for i = 1:n
        sum = sum + (feval(fun, x(i)) >= t);
    end
    measure = (b-a)*sum/n;
end
```

**Vector Solution:**

```matlab
function measure = MCmeasure (f, t, a, b, n)
    fun = fcnchk (f,'vectorized');
    x = a + (b-a)*rand (n,1);
    sum = 0;
    for i = 1:n
        sum = sum + (feval(fun, x(i)) >= t);
    end
    measure = (b-a)*sum/n;
end
```