



1a)

```
(define twenty-side-1
  (lambda ()
    (+ 1 (random 20))))
```

```
(define twenty-side-2
  (lambda ()
    (random 1 21)))
```

1b)

```
(define rand-even-1
  (lambda ()
    (* 2 (random 51))))
```

```
(define rand-even-2
  (lambda ()
    (let ([x (+ 1 (random 100))])
      (if (even? x)
          x
          (+ 1 x))))))
```

1c)

```
(define either-or-1
  (lambda ()
    (list-ref '(42 99) (random 2))))
```

;; A **fun** mentor session solution

```
(define either-or-2
  (lambda ()
    (+ 42 (* 57 (random 2)))))
```

```
(define either-or-3
  (lambda ()
    (if (= (random 2) 0)
        42
        99)))
```

2)

;; #\y

;; Error: let\* or nested let statements should be used for multiple definitions

