

# Procedure abstraction

Umut Özge

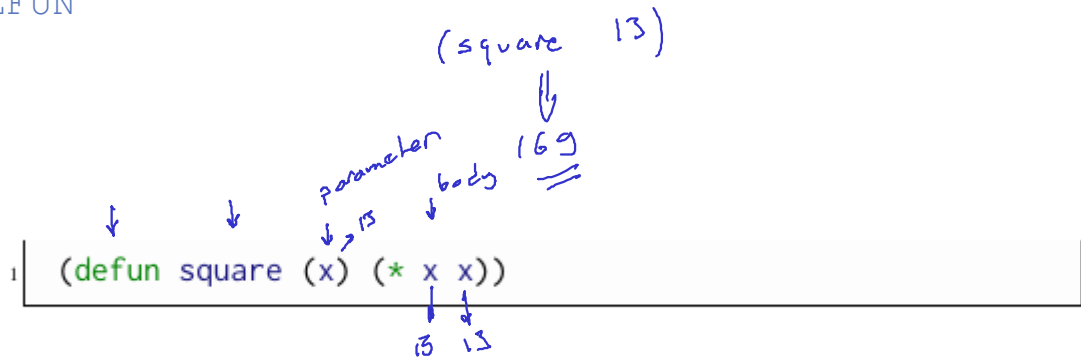
COGS 502: Symbols and Programming  
METU, Informatics

## Circular area

$$A = \pi r^2$$



## DEFUN



`SQUARE` → < ..... >

→ return value

⇓  
`SQUARE`

## Variable naming

(defun <procedure-name> (<parameters>) <body>)

↑

<form 1>

<form 2>

⋮

⇒ <form n>

1 (defun sqr (x) (\* x x))  
2 (defun square (y) (\* y y))

## Further abstraction

↓

```
1 (defun area (radius) (* pi (square radius)))
```

↑

SQUARE → (---)



