

## Gary's Fraction Challenge

Make a procedure called PIE that will divide a circle into a fraction indicated by two inputs to the procedure, PIE. Below are some procedures to get you started.

### Fraction 2 3

```
to rectangle :length
repeat 2 [fd 50 rt 90 fd :length rt
90]
end
```

```
to fraction :n :d
rectangle 300
repeat :d [rt 90 fd 300 / :d lt 90
fd 50 bk 50]
lt 90 fd 300 rt 90
```

```
repeat :n [fillit pu rt 90 fd 300 /
:d lt 90]
rt 90
bk :n / :d * 300 lt 90
end
```

```
to fillit
setc "red
pu rt 45 fd 2
fill
bk 2 lt 45
setc "black
end
```

Or, in this version, you would type **fraction 400 3 5** to draw a rectangle with a length of 400 divided into 3/5

```
to rectangle :length
pd
repeat 2 [fd 50 rt 90
fd :length rt 90]
end

to fraction :l :n :d
rectangle :l
repeat :d [rt 90 fd :l / :d
lt 90 fd 50 bk 50]
lt 90 fd :l rt 90
repeat :n [fillit pu rt 90
fd :l / :d lt 90]
rt 90
```

```
bk :n / :d * :l lt 90
end
```

```
to fillit
setc "red
pu
rt 45
fd 2
fill
bk 2
lt 45
setc "black
end
```

**Challenge:** Can you write a program to represent fractions as part of a circle??