



Ruby 101

Ruby Basics:Math

Ruby Basics:

Basic Math:

Addition +

Subtraction -

Multiplication *

Division /

Exponent **

Modulus %

Math::PI



Using Math in a program:

Can operate on both literals and variables

```
4 * 4
```

```
area = 4 * 4
```

```
base = 4
```

```
height = 4
```

```
base * height
```

```
area = base * height
```



Assignment of variable with math:

Right side evaluated first, then given to the left side

```
area = 4 * 4
```

```
base = 4
```

```
height = 4
```

```
area = base * height
```

```
height = 3
```

(area = 16, not 12)



Try it yourself:

1) Write a program to calculate the volume of a box. Put each dimension in its own variable. Print out the result

(Hint on the next slide)



Ruby Basics:

```
length = 10
```

```
height = 20
```

```
width = 50
```

```
volume = length * height * width
```

```
puts volume
```



Ruby Basics:

```
100.to_s
```

```
("100")
```

```
"100".to_i
```

```
(100)
```

```
"10.2".to_f
```

```
(10.2)
```



