

## Worksheet: Variables

Access Code 4.1

### Exercise 1

Fill in the blanks in each table based on the code above it. Write a step-by-step evaluation. You may use node to verify your answers.

```
var price = 90;  
var discount = 50;  
var finalPrice = price - (price * (discount / 100));
```

| price | discount | price - (price * (discount / 100))   | finalPrice |
|-------|----------|--|------------|
| 90    | 50       | <div>-&gt; 90 - (90 * (50 / 100))<br/>-&gt; 90 - (90 * 0.5)<br/>-&gt; 90 - (45)<br/>-&gt; 45</div> | 45         |

```

var price = 40;
var discount = 10;
var finalPrice = price - (price * (discount / 100));

```

| price | discount | price - (price * (discount / 100)) | finalPrice |
|-------|----------|------------------------------------|------------|
|       |          | ->                                 |            |
|       |          | ->                                 |            |
|       |          | ->                                 |            |
|       |          | ->                                 |            |

```

var temperature = 81;
var willRain = true;
var humid = temperature > 81 && willRain;

```

| temperature | willRain | temperature > 81 && willRain | humid |
|-------------|----------|------------------------------|-------|
|             |          | ->                           |       |
|             |          | ->                           |       |
|             |          | ->                           |       |

```
var guess = 6
var isValid = (guess >= 0 && guess <= 6)
```

| guess | guess >= 0 && guess <= 6 | isValid |
|-------|--------------------------|---------|
|       | ->                       |         |
|       | ->                       |         |
|       | ->                       |         |
|       | ->                       |         |

```
var fileSize = 1287;
var tooBig = fileSize > 1000;
var urgent = true;
var sendFile = urgent || !tooBig;
```

| fileSize | fileSize > 1000 | tooBig | urgent    !tooBig | sendFile |
|----------|-----------------|--------|-------------------|----------|
|          | ->              |        | ->                |          |
|          | ->              |        | ->                |          |