

How Computers make decisions

Computers can't make decisions on their own. Humans have to "program" every decision they make. A human tells a computer if it should do **this** or **that**. This is done by a system called **if-else** statements. Basically you tell a computer "**If** this is true then do this, **else** do that."

How to make decisions like a computer:

Determine whether the statement inside the parenthesis after the keyword **if** is **true** or **false**. If it is **true**, then you will do what is next. If the statement is **false**, you will do what is after the **else** statement.

Your Turn! Perform the operations like a computer.

```
if ( 3 + 2 = 5 ) {  
    draw a red circle  
} else {  
    draw a blue circle  
}
```



```
if ( 5 + 4 = 8 ) {  
    draw a green star  
} else {  
    draw a purple star  
}
```



```
if ( squares have 4 sides ) {  
    draw a green triangle  
} else {  
    draw a blue triangle  
}
```

```
if ( squares have 4 sides ) {  
    draw a blue square  
} else {  
    draw a orange square  
}
```

```
if ( 5 * 2 = 10 ) {  
    draw a yellow circle  
} else {  
    draw a blue circle  
}
```

```
if ( 3 * 4 = 14 ) {  
    draw a black star  
} else {  
    draw a blue star  
}
```

```
if ( 2 + 2 = 3 ) {  
    draw a purple triangle  
} else if ( 2 + 2 = 4 ) {  
    draw a pink triangle  
} else {  
    draw a black triangle  
}
```

```
if ( 1 * 1 * 1 = 1 ) {  
    draw a black square  
} else if ( 1 * 1 * 1 * 0 = 1 ) {  
    draw a brown square  
} else {  
    draw a teal square  
}
```