**OUTLINE**

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| **Slide** | **Purpose** | **Active** | **Passive** |
| 1 | Concrete problem | Do you see the eight islands in the ocean? How far away do you think each island is from the mainland? | It shows eight islands in the ocean, each a different distance away from the mainland. |
| 2 | Pre-training with geographic data |  |  |
| 3 | Pre-training with simple diagram |  |  |
| 4 |  |  |
| 5 | Ready? | Let’s get started. |
| 6 | State goal and show cause-effect of RECLASSIFY with realdata | In the next slide, how do the numbers stored in the raster layer change? | In the next slide, watch how the numbers change. |
| 7 | The ocean is still 0 and the mainland is 1, but can you see that each island now has a unique number? | The ocean is still 0 and the mainland is 1, but each island now has a unique number. |
| 8 | Explain how REGION GROUP works with simple example | With these three rules, can you fill in the cells in the new layer? | *Omitted prompt.* |
| 9 |  |  |
| 10 | Explain how to operate REGION GROUP with real example | Of the six prompts in this window, what do you think are the four we need to focus on? | Of the six prompts in the window, there are only four that we need to focus on. |
| 11 |  |  |
| 12 | Show cause-effect of RECLASSIFY with real-data | How do the numbers stored in this layer change in the next slide? | Watch how the numbers change in the next slide. |
| 13 |  |  |
| 14 | Explain how RECLASSIFY works with simple example | Using the raster on the left as our input layer, what would the output layer on the right look like if we only kept the value 1? Can you try to fill in the missing values? | Using the raster on the left as our input layer, here’s what the layer on the right would look like if we only kept the value 1. |
| 15 | What do you think we could use? | *Omitted prompt.* |
| 16 |  |  |
| 17 | How could you fill out the table? | *Omitted prompt.* |
| 18 |  |  |
| 19 | Explain how to operate RECLASSIFY tool with real example | What do you think the three prompts are that we need to focus on? | There are three prompts we need to focus on. |
| 20 |  |  |
| 21 | State goal and show cause effect of EUCLIDEAN DISTANCE with real data | Are you wondering why we needed to make this?  How do the values change in the raster on the next slide? | Perhaps you’re wondering why we needed to make this.  Look closely at the values in the raster and how they change in the next slide. |
| 22 |  |  |
| 23 | Explain how EUCLIDEAN DISTANCE works with simple example | What number do you think we should put in the new layer for cells that were gold in our old layer? | *Omitted prompt.* |
| 24 | Now how should we fill in the cells that have NoData in the first layer and share one or more sides with the mainland? How many cells away are these cells? | Now let’s look at cells that have NoData in the input layer and share one or more sides with the mainland. |
| 25 | How far away is this cell? | *Omitted prompt.* |
| 26 | Can you now fill out the numbers for the remaining cells? | Here’s what happens with the remaining cells. |
| 27 | How do you think we translate how many cells away something is into units of distance, like meters? | We need to translate how many cells away something is into units of distance, like meters. |
| 28 |  |  |
| 29 | How to operate EUCLIDEAN DISTANCE tool with real example | What do you think each prompt did? | *Omitted prompt.* |
| 30 |  |  |
| 31 | State goal and show cause and effect of ZONAL STATISTICS | How do the values in the layer shown here change in the next slide? | Look at how the values in the layer shown here change in the next slide. |
| 32 | So what layer do you think we could use along with the distance from the mainland layer to make the layer shown here? | So we need to use another layer along with the distance from the mainland layer to make the layer shown here. |
| 33 |  |  |
| 34 | Explain how ZONAL STATISTICS works with simple example | So can you list the values that define the five zones shown here? |  |
| 35 |  | Here is the list of values that define each zone. |
| 36 | Can you list the values in the right layer that are in Zone 0 in the left layer? |  |
| 37 |  | Here is the list of values in the right layer that are in Zone 0 in the left layer. |
| 38 | If we use “Minimum” as our statistic, can you fill in the cells in the output layer? | We’ll use “Minimum” as our statistic. |
| 39 | Can you fill in the value for Zone 1? | *Omitted prompt.* |
| 40 | Now can you fill in the output values for the remaining zones? |  |
| 41 |  | Here are the minimum values for the remaining cells. |
| 42 | Explain how to operate ZONAL STATISTICS tool | What do you think the four key prompts are for this tool? | I’ve filled out the four key prompts. |
| 43 |  |  |
| 44 | Show final layer |  |  |