



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Creating Images from Numbers

### Student Sheet

Directions:

1. Use the **DATA** to color the **GRID**.
2. Use the colors in the **COLOR KEY**.

COLOR KEY	
Number Range	Color
0-5	Black
6-10	Blue
11-15	Green
16-20	Yellow
21-25	Red
26-30	Orange
31-35	White

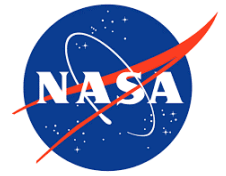
### DATA

7	8	11	11	12	16	20	18	15	14
6	8	15	17	18	18	19	20	15	14
3	8	15	17	18	18	19	20	16	14
4	8	14	20	28	25	25	25	20	15
7	8	13	17	24	31	30	24	19	14
7	8	13	18	25	29	31	24	19	14
8	9	12	14	18	25	28	23	18	13
9	11	12	14	15	18	22	18	15	12
10	11	11	13	14	15	16	13	14	10
10	10	11	12	13	13	15	15	13	10

The image you created is called a **false-color image** because the image is made from colors assigned to numbers and not a photograph.

Answer the questions.

1. Answer the following questions if the data are **wind speed** in km per hour.
  - a. What color is the fastest? \_\_\_\_\_ Slowest? \_\_\_\_\_
  - b. Where is the wind between 21-25 km per hour? \_\_\_\_\_
2. Answer the following questions if the data are **elevation** in meters above sea level.
  - a. What color is the lowest? \_\_\_\_\_ Highest? \_\_\_\_\_
  - b. Where is the elevation between 31 and 35 meters above sea level? \_\_\_\_\_



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

3. Do you notice any pattern in the image?

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4. How does the size of the grids in the grid paper affect the image that you created?

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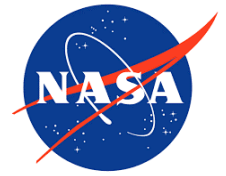
5. Which do you think would be more realistic, larger grid sizes or smaller? Why?

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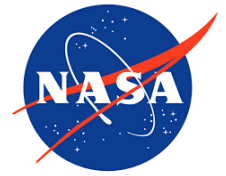
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Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_



### GRID

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

Directions:

1. Complete the **COLOR KEY** by choosing colors for the different categories.
2. Use the **DATA** to color the **GRID**.
3. Use the colors in the **COLOR KEY**.

COLOR KEY	
Number Range	Color
0-5	Black
6-10	
11-15	
16-20	
21-25	
26-30	
31-35	White

**DATA**

7	8	11	11	12	16	20	18	15	14
6	8	15	17	18	18	19	20	15	14
3	8	15	17	18	18	19	20	16	14
4	8	14	20	28	25	25	25	20	15
7	8	13	17	24	31	30	24	19	14
7	8	13	18	25	29	31	24	19	14
8	9	12	14	18	25	28	23	18	13
9	11	12	14	15	18	22	18	15	12
10	11	11	13	14	15	16	13	14	10
10	10	11	12	13	13	15	15	13	10

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Answer the questions.

1. Answer the following questions if the data are **wind speed** in km per hour.
  - a. What color is the fastest? \_\_\_\_\_ Slowest? \_\_\_\_\_
  - b. Where is the wind between 21-25 km per hour? \_\_\_\_\_
2. Answer the following questions if the data are **elevation** in meters above sea level.
  - a. What color is the lowest? \_\_\_\_\_ Highest? \_\_\_\_\_
  - b. Where is the elevation between 31 and 35 meters above sea level? \_\_\_\_\_



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

3. Do you notice any pattern in the image?

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4. How does the size of the grids in the grid paper affect the image that you created?

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5. Which do you think would be more realistic, larger grid sizes or smaller? Why?

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