

Comparing Integers

Sheet 1

- A) The following average temperatures have been recorded across eight cities in the state of Michigan for the month of January from 1981 - 2010.

City	Mt.Pleasant	Houghton Lake	Benton Harbor	Iron Mountain	Battle Creek	Detroit	Cadillac	Dearborn
Temperature (°C)	-11	-13	1	-15	6	2	-9	-1

Answer the following questions based on the data given above:

- 1) Which city recorded the warmest average temperature for the month of January?

- 2) Which city recorded a cooler average temperature in January - Cadillac or Dearborn?

- 3) List three cities that recorded relatively warmer average temperatures in January.

- 4) The cities that recorded average temperatures between -9°C and 6°C are

- 5) Which cities recorded subzero temperatures?

- 6) Houghton Lake recorded the lowest average temperature in January. True or False? If false, support your answer.

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Temperature (°C)	-11	-13	1	-15	6	2	-9	-1

Answer the following questions based on the data given above:

- 1) Which city recorded the warmest average temperature for the month of January?

Battle Creek

- 2) Which city recorded a cooler average temperature in January - Cadillac or Dearborn?

Cadillac

- 3) List three cities that recorded relatively warmer average temperatures in January.

Battle Creek, Detroit, and Benton Harbor

- 4) The cities that recorded average temperatures between -9°C and 6°C are

Dearborn, Benton Harbor, and Detroit

- 5) Which cities recorded subzero temperatures?

Dearborn, Cadillac, Mt.Pleasant, Houghton Lake, and Iron Mountain

- 6) Houghton Lake recorded the lowest average temperature in January. True or False? If false, support your answer.

False, Iron Mountain recorded the lowest average temperature at -15°C .

Comparing Integers

Sheet 2

- B) Angeline analyzes the physical properties of a few elements. She notes the boiling points of these elements and tabulates the data. Read the data and answer the following questions.

Element	Oxygen	Nitrogen	Hydrogen	Iodine	Phosphorus
Boiling point (°C)	-183	-196	-253	184	280

Answer the following questions based on the data given above:

- 1) Find the element that has the lowest boiling point.

- 2) Which element records the highest boiling point?

- 3) Iodine has the highest boiling point.

- 4) What is the difference between the boiling point of Iodine and Nitrogen?

- 5) Oxygen has a lower boiling point than Nitrogen. If false, support your answer.

- 6) List the elements whose temperatures range between -196°C and 280°C .

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Answer the following questions based on the data given above:

- 1) Find the element that has the lowest boiling point.

- 2) Which element records the highest boiling point?

- 3) Iodine has the highest boiling point.

False. Phosphorus

- 4) What is the difference between the boiling point of Iodine and Nitrogen?

- 5) Oxygen has a lower boiling point than Nitrogen. If false, support your answer.

False. Oxygen has a higher boiling point at -183°C .

- 6) List the elements whose temperatures range between -196°C and 280°C .

Oxygen and Iodine

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Comparing Integers

- C) The following data represents the elevations of a few cities in the USA that are located both above and below sea level.

City	New Orleans	El Centro	Heber	Long Beach	Miami
Sea level (feet)	-7	-39	-16	37	30

Answer the following questions based on the data given above:

- 1) How many cities are located below sea level?

- 2) List the cities situated above sea level.

- 3) What is the difference in elevation between the highest and lowest cities?

- 4) Which city has an elevation closest to sea level?

- 5) Find the difference in altitude between the cities that have the highest and lowest elevation.

- 6) Long Beach is 19 ft higher in elevation than Heber. If false, support your answer.

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Comparing Integers

Sheet 3

- C) The following data represents the elevations of a few cities in the USA that are located both above and below sea level.

City	New Orleans	El Centro	Heber	Long Beach	Miami
Sea level (feet)	-7	-39	-16	37	30

Answer the following questions based on the data given above:

- 1) How many cities are located below sea level?

- 2) List the cities situated below sea level.

- 3) What is the difference in elevation between the cities with the highest and lowest elevations?

- 4) Which city has an elevation that is 19 feet higher than Heber?

- 5) Find the difference in altitude between the cities that have the highest and lowest elevation.

- 6) Long Beach is 19 ft higher in elevation than Heber. If false, support your answer.

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76 ft

False, Long Beach is 53 ft higher in elevation than Heber.