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

UNIT 3 LESSON 4

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| AIM: | SWBAT compare numbers |

**THINK ABOUT IT!**

Use the numbers below to answer the two questions.

-10, -2, -20, -15

1. Use a number line and write an inequality statement using < or > to order the numbers from least to greatest
2. Below each integer, write its absolute value. What do you notice about the order of the absolute values relative to the order of the integers? Why do you think that relationship exists?

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**Test the Conjecture**

*Test the Conjecture #1)*Order -4, 7, and -9 from greatest to least using < or >

*Test the Conjecture #2)*Rochelle and Tori are scuba diving in the ocean. Rochelle is swimming at an elevation of -54 feet and Tori is swimming at an elevation of -58 feet. Who is swimming at a greater depth? Write an inequality statement to compare the two elevations.

Conjecture

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**PARTNER PRACTICE**

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| *Bachelor Level* |

1. Compare each set of integers by reasoning about their absolute values. Prove that your comparison is correct using a number line.
2. -14 and -13
3. -3 and -4

Explain how you know your comparison above is correct using the language of absolute value.

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| *Master Level* |

1. Jorge is packing up his stuff to move. He has three boxes that weight 15 lbs., 12 lbs. and 19 lbs.
   1. Plot each value on a number line
   2. Write an inequality statement comparing the three numbers using < or >
   3. Write the absolute value below each number in your inequality statement. Does our conjecture work for positive numbers too? Why or why not?

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**INDEPENDENT PRACTICE**

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| *Bachelor Level* |

1. Write an inequality statement for each problem below comparing the integers by reasoning about their absolute values. Prove that your comparison is correct using a number line.
2. -25 and -26
3. -19 and 7
4. -11, 0, -16
5. Explain how you used your understanding of absolute value to order the integers in part C.

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| *Master Level* |

1. Which debt is greater: -$100 or -$95? Explain how you know.
2. Margot is swimming at an elevation of -36 feet and Jeremy is swimming at an elevation of -30 feet. Jeremy says that he is swimming at a greater depth because -30 is greater than -36. Is Jeremy’s reasoning correct? If so, explain. If not, correct his statement and explain.

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3) Lucy's bank statement for last week shows $300 for a deposit into her checking account and –$300 for a withdrawal.

Select *all* statements that are true.

1. The withdrawal amount is more than the deposit amount.
2. The sum of the deposit and withdrawal equals $0.
3. The absolute value of both the deposit and withdrawal is $0.
4. The amounts of the deposit and withdrawal would be the same distance from 0 on the number line.

4) Changes in the weather can be predicted by changes in the barometric pressure. Over several weeks, Stephanie recorded changes in barometric pressure seen on her barometer to compare to local weather forecasts. Her observations are recorded in the table below.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Barometric Pressure Change (inches of Mercury)** | Rise 4 | Fall 2 | Rise 3 | Fall 1 | 0 | Fall 8 | Fall 7 |
| **Barometric Pressure Change (inches of Mercury)** |  |  |  |  |  |  |  |

1. Use integers to record the indicated changes in the pressure in the second row of the table.
2. Order the pressure changes from least to greatest.

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4) Which inequality below shows a true statement?

1. -4 > -1
2. -4 < -3
3. 2 < -5
4. 0 > 3

4) Write a value that makes this inequality statement true. Explain your thinking.

-2 < \_\_\_\_\_\_\_ < 1

Explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. While she was playing Monopoly, Desiree was penalized twice and had to move -6 spaces and -7 spaces on two turns. Which statement below describes a comparison of the two penalties?
2. Moving back six spaces is a bigger penalty than moving back seven spaces because -6 > -7
3. Moving back six spaces is a bigger penalty than moving back seven spaces because -6 < -7
4. Moving back seven spaces is a bigger penalty than moving back six spaces because -6 > -7
5. Moving back seven spaces is a bigger penalty than moving back six spaces because -6 < -7
6. Jonathan is in the Navy.  He is stationed on a submarine.  At 1:00pm the submarine was at 836 feet below sea level.  At 5:00pm it was at 840 feet below sea level.  The following morning at 9am the submarine was 824 below sea level. When was Jonathan closest to sea level? Explain how you know applying the concept of absolute value.

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A second submarine was at a depth that was shallower than Jonathan’s submarine when the submarine was closest to sea level. At what height could the second submarine have been? Explain.

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| *PhD Level* |

1. Compare the rational numbers below from least to greatest by applying your understanding of absolute value

-4 ½, 1 ¼, -2 ½, 3 ¼, -1 ¾

1. Barry’s bank account statement is below and it shows his last 7 transactions.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Transaction** | Deposit $110.40 | Fee of $2.45 | Credit of $50 | Debit of $95.50 | Fee of $9.98 | Deposit $12.95 | Withdraw $100 |
| **Change to Barry’s Account** |  |  |  |  |  |  |  |

* 1. Use rational numbers to record the indicated transactions in the second row of the table.
  2. Order the transactions from least to greatest.

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there. | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there. | You need more practice and feedback. |

1. Order the four integers below from least to greatest. Explain how you determined the order using absolute value

-4, -10, -3, -7

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If you added 7 to the set of numbers, where would it go in the order? Why?

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1. Marceles and Dashawn checked their bank statements. Marceles’ account balance is -30 dollars and Dashawn’s account balance is -25 dollars. Dashawn claims that he has a greater debt because -25 > -30. Is his reasoning correct? Explain.

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