Name _____ My Homework _____

Lesson 3

Compare and Order Integers

Guided Practice

Fill in each ○ with <, >, or = to make a true statement. (Example 1)

1. 17 ○ 31

2. −6 ○ −10

3. −83 ○ −38

4. Andrew and his father are scuba diving at −38 feet and Tackle Box Canyon has an elevation of −83 feet. Write an inequality to compare the depths. Explain the meaning of the inequality. (Example 2)

5. STEM The daily low temperatures in Kate's hometown last week were 2°C, −9°C, −18°C, −6°C, 3°C, 0°C, and −7°C. Order the temperatures from greatest to least. (Examples 3 and 4)

Independent Practice

Fill in each ○ with <, >, or = to make a true statement. (Example 1)

1. −2 ○ −4

2. 1 ○ −3

3. 5 ○ 0

4. Amy is building a house. The basement floor is at −15 feet. The roof of the house is above the ground 25 feet. Write an inequality to compare the heights. Explain the meaning of the inequality. (Example 2)

5. The low temperature in Anchorage, Alaska, one day was −9°F. On the same day, the low temperature in Flagstaff, Arizona, was 26°F. Write an inequality to compare the temperatures. Explain the meaning of the inequality. (Example 2)

Order each set of integers from least to greatest. (Example 3)

6. {15, 17, 21, 6, 3}

7. {−55, 143, 18, −79, 44, 101}

8. The table indicates Xavier's cell phone use over the last four months. Positive values indicate the number of minutes he went over his allotted time, and negative values indicate the number of minutes he was under. Arrange the months from least to most minutes used. (Example 4)

Month	Time (min)
February	−156
March	12
April	0
May	−45

Standardized Test Practice

14. Order the set {−5, 3, 2, −7} from greatest to least.

Ⓐ −7, −5, 3, 2 Ⓒ 2, 3, −5, −7

Ⓑ −7, −5, 2, 3 Ⓓ 3, 2, −5, −7

18. The elevation of Driskill Mountain, Louisiana, is 163 meters above sea level. Death Valley has an elevation of −86 meters. Write an inequality to compare the elevations. Explain the meaning of the inequality.

19. Yvonne owes her sister $25. Michael's checking account balance is −$20. Write an inequality to compare the amounts. Explain the meaning of the inequality.

Order each set of integers from least to greatest.

20. {14, 1, 6, 23, 7, 5}

21. {−221, 63, 54, −89, −71, −10}

22. Gary, Sindhu, and Beth are all waiting for their trains to arrive. Gary's train leaves at 5 minutes before noon, Sindhu's leaves at 25 minutes after noon, and Beth's leaves 5 minutes before Sindhu's train. Order the three by who will leave first.