Name: _____ Hour: _____

Chapter 1 Study Guide

Adding and Subtracting Rational Numbers • Show your work. Write fractions in simplest form.

1.1 Rational Numbers

Learning target: Understand absolute values and ordering of rational numbers.

1. Find the absolute value: |3|

2. Find the absolute value: |-9|

3. Copy and complete using <, >, or =: |-2| _____ -2

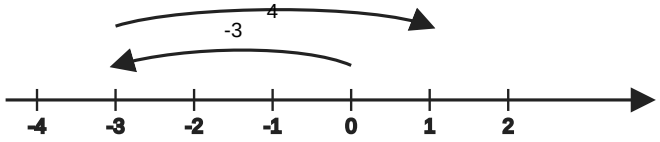
4. Order 2.25, |-1.5|, |1 1/4|, |2 1/2|, and -2 from least to greatest.

5. Your friend is in Death Valley, California, at an elevation of -282 feet. You are near the Mississippi River in Illinois at an elevation of 279 feet. Who is closer to sea level?

1.2 Adding Integers

Learning target: Find sums of integers.

6. Write an addition expression represented by the number line. Then find the sum.



7. Find the sum: -16 + (-11)

8. Find the sum: 100 + (-75)

9. During the first play of a football game, you lose 3 yards. You gain 7 yards during the second play. What is your total gain of yards for these two plays?

Name: _____ Hour: _____

Chapter 1 Study Guide

Adding and Subtracting Rational Numbers

1.3 Adding Rational Numbers

Learning target: Find sums of rational numbers.

10. Find the sum: $9/10 + (-4/5)$

11. Find the sum: $-4\ 5/9 + 8/9$

12. Find the sum: $-1.6 + (-2.4)$

13. You open a new bank account. The table shows the activity of your account for the first month. Positive numbers represent deposits and negative numbers represent withdrawals. What is your balance, in dollars, at the end of the first month?

Date	Amount ($)
3/5	100
3/12	-12.25
3/16	25.82
3/21	14.95
3/29	-18.56

1.4 Subtracting Integers

Learning target: Find differences of integers.

14. Find the difference: $8 - 18$

15. Find the difference: $-16 - (-5)$

16. Find the difference: $-12 - (-27)$

17. Oxygen has a boiling point of -183°C and a melting point of -219°C. What is the temperature difference of the melting point and the boiling point?

Name: _____ Hour: _____

Chapter 1 Study Guide

Adding and Subtracting Rational Numbers

1.5 Subtracting Rational Numbers

Learning target: Find differences of rational numbers and distances between numbers on a number line.

18. Find the difference: -5/12 - 3/10

19. Find the difference: 3 3/4 - 7/8

20. Find the difference: 3.8 - (-7.45)

21. Find the distance between -3.71 and -2.59 on a number line.

22. The lowest temperature ever recorded on Earth was -89.2°C at Soviet Vostok Station in Antarctica. The highest temperature ever recorded was 56.7°C at Greenland Ranch in California. What is the difference between the highest and lowest recorded temperatures?