Aim: Test Prep (Day 4)

Do Now:

(pg. 30)

19 A movie rental company deducts $7 from Serena's account every month for a year. After 1 year, how much do movie rental fees change Serena's account?

Mar 18-7:21 PM

Topic: To understand Addition of Positive and Negative Integers

(39% Incorrect)

15. In the recent economic recession, Eduardo lost money. His account is -$465 from his original balance. How much money will he have to deposit in order for it to be back to where the account started?
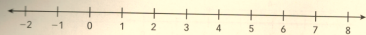
A. -$465
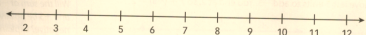
B. $465

C. $930

D. -$930

Mar 18-7:26 PM

(pg. 4)

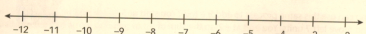Using a number line helps to visualize what is happening when adding integers.

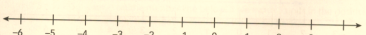4 Use the number line below to show $6 + (-6)$. The sum $6 + (-6) = $ _____.

−2 −1 0 1 2 3 4 5 6 7 8

5 Use the number line below to show $11 + (-8)$. The sum $11 + (-8) = $ _____.

2 3 4 5 6 7 8 9 10 11 12

6 Use the number line below to show $-4 + (-7)$. The sum $-4 + (-7) = $ _____.

−12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2

7 Use the number line below to show $-4 + 7$. The sum $-4 + 7 = $ _____.
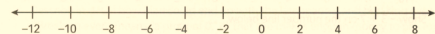
−6 −5 −4 −3 −2 −1 0 1 2 3 4

Mar 18-7:41 PM

(pg. 5)

8 Jason's football team lost 6 yards from their starting position and then lost another 5 yards. What number represents a loss of 6 yards? a loss of 5 yards? _____

9 Use a number line to find the team's total loss.

−12 −10 −8 −6 −4 −2 0 2 4 6 8

10 On the next play, the team gains 12 yards. Will the team be at their original starting position? Explain.

Mar 18-7:41 PM

1

17. What must be the value of x to make the statement true?
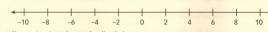
$5 - x + 4 - 2 = 0$
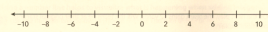
A 5

B 7

C -5

D -7

Activity Questions: Pages 6 - 7

Mar 18-7:41 PM

Talk through these problems as a class and write your answers below.

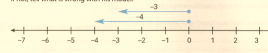13 Compare: Show $7 + (-3)$ on the number line below.

−10 −8 −6 −4 −2 0 2 4 6 8 10

Show $-3 + 7$ on the number line below.
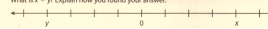
−10 −8 −6 −4 −2 0 2 4 6 8 10

What do you notice about the results? _____

Explain why your number lines end on the same number.

14 Explain: Chase drew the number line below to show $-4 + (-3)$. Is his model accurate? If not, tell what is wrong with his model.

−3
−4

−7 −6 −5 −4 −3 −2 −1 0 1 2 3

15 Analyze: On the number line below, the numbers x and y are the same distance from 0. What is $x + y$? Explain how you found your answer.

y 0 x

16 Use what you have learned in this lesson to complete this task.

Mari is participating in National Lemonade Stand Day. She spends $18 for start-up costs, which include supplies to make the lemonade, cups, and advertising.

A Describe in detail how Mari could end up with the lemonade stand breaking even. ("Breaking even" means "a profit of 0," or that she makes enough money to pay for her start-up costs but has no money left over.) Your description must include:

• the cost of each type of supply (lemonade, cups, and advertising), with each cost represented as a negative number and in dollars
• the price Mari charges for 1 cup of lemonade, in dollars
• the total amount of sales, in dollars
• the money she has left over after covering her start-up costs, in dollars
• a mathematical expression and model that use the concepts in this lesson to show the amount of profit

_____
_____
_____

B Repeat Part A for the situation where Mari's lemonade stand makes a profit (meaning she has enough money to pay for her startup costs and has some money left over). Draw your number line on a separate sheet of paper.

Mar 18-7:41 PM

Summary:

What is the most important part

of today's lesson?

    Opposites: Ex. -5 and 5

                10 and -10

    Absolute Value: positive distance away
                        from zero

Mar 18-7:23 PM