

Lesson Plan Positive and Negative Numbers- An Introduction with Addition and Money

I. Introduction of the Concept

- Begin by telling students that today we are going to be learning about positive and negative numbers.
- Brainstorm on the blackboard.
- Ask, "What do we mean by positive numbers?"
- Ask, "What do we mean by negative numbers?"

Teacher Notes: Write student responses on the board. Use the negative symbol (-) when writing student examples that are negative. This introduces the symbol to the students right away. You are looking for students to have a general understanding that positive numbers indicate a gain of some kind (could be football yards or temperature), and that negative numbers indicate a loss or decrease (temperature again "below zero" or football penalty- loss of yards). Be sure this is clear before moving on.

II. Connect Positive and Negative Numbers to Money

Teacher Note: Money may have come up in the brainstorm, if so refer back to the example here. If not, introduce the concept.

- Begin with "Positive and Negative numbers can also be found in the world of money/finance."
- "Who can give me an example?"

Write examples on the board.

Examples to add: checking accounts- positive balance- spends too much = negative balance, allowances- spends too much = negative balance.

Once the concept is clear, move on to the examples.

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III. Class/Group Practice

- Ask students to take out a piece of paper.

Example 1

- Write the following examples on the board.

Skateboard- \$57.85

Sweatshirt- \$34.50

CD- \$15.65

Gum- \$1.49

Soda- \$.89

Snowboard Boots- \$89.00

- You have been working hard doing odd jobs and have earned \$88.75. If you buy a skateboard, 2 CD's and a soda will you have any money left over? How much is left or how much did you overspend?

Allow students time to work this out on paper.

Put the answer on the board- allow student participation.

- Overspent by -\$1.29.
- Review the work on the board.
 1. Show how to write the problem to solve it.
 2. Demonstrate how to figure out the negative balance.

Model- How much you have + what you spent

$$\begin{array}{r} \$88.75 \\ + - \$90.04 \\ \hline = -\$1.29 \end{array}$$

Example 2

- \$.89 + \$.99= _____
- Means, you spent .89 but earned .99- what is your final balance?
- *Ask students what operation needs to be done to solve this problem.*
- *Have students solve it on their papers and share answers.*

Name _____

Date _____

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Example 3

- “Sometimes you can overspend and keep spending. This can happen with bank accounts. Someone has a negative balance, meaning he/she already spent too much money, and they don’t realize it. This person then keeps spending so the negative balance continues to grow.
- Someone has -\$6.50 in his/her account.
They spend -\$5.50 more
- So we write, $-\$6.50 + -5.50 = -\12.00 .
- This person has a negative balance of \$12.00 in his/her checking account.

Name _____

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Lesson Plan Positive and Negative Numbers- An Introduction with Addition and Money Questions

Directions: Add each of the following money amounts together to determine whether there has been a loss or a gain.

1. $\$2.89 + -\$1.25 =$ _____

2. $.67 + .52 =$ _____

3. $-\$.27 + - \$.32 =$ _____

4. $-\$.39 + \$12.67 =$ _____

5. $\$38.25 + -27.00 =$ _____

6. $\$425.00 + - \$426.00 =$ _____

7. $.27 + -.56 =$ _____

8. $-\$5.25 + -\$2.36 =$ _____

9. $-\$27.80 + \$35.62 =$ _____

10. $\$33.75 + \$26.87 =$ _____

Directions: For each example, write out the problem and solve

11. John has \$36.00 to spend. He bought a CD player for \$26.75. How much money does John have left?

12. Mary overspent this month and her bank account has a negative balance of \$27.00. The bank charged her \$25.00 for overspending. What is the new balance in her account?

13. *Use your answer from #12 for this problem.*

Mary got a new job and earned \$62.50. She is going to put this money in the bank. After it is deposited, what will Mary's new balance be?

Name _____

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*Lesson Plan Positive and Negative Numbers- An Introduction with
Addition and Money Questions (Cont'd)*

Directions: Write three word problems of your own using money, gains and losses. A peer will be solving your word problems tomorrow. Include an answer key.

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Date _____

Lesson Plan Positive and Negative Numbers- An Introduction with Addition and Money Answers

1. \$ 1.64

2. \$1.19

3. -\$1.78

4. \$12.28

5. \$11.25

6. -\$1.00

7. -.29

8. -\$7.61

9. \$7.82

10. \$60.62

11. $\$36.00 + - \$26.75 = \$9.25$

12. $-\$27.00 + - \$25.00 = -\$52.00$

13. $-\$52.00 + \$ 62.50 = \10.50