

# Turn Around Phrases In Math

**ALL TOGETHER PRACTICE**

- 1) 2 fewer than a number  $x-2$
- 2) a number decreased by 10  $x-10$
- 3) 4 from a number  $x-4$
- 4) a number less than 2  $2-x$
- 5) 13 less than a number  $x-13$

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Turn around phrases in math are essential tools that help students understand the relationships between numbers and operations. These phrases, often referred to as "turnaround sentences," are valuable in teaching mathematical concepts because they explicitly state how to manipulate equations or expressions. In this article, we will explore the significance of turnaround phrases, delve into various examples, and discuss how they can be effectively used in both teaching and learning mathematics.

## Understanding Turn Around Phrases

Turnaround phrases are simple yet powerful statements that express the commutative property of operations. They help students recognize that the order of numbers can be changed without affecting the outcome, particularly in addition and multiplication. For instance, the phrase "a plus b is the same as b plus a" clearly illustrates this property.

## The Commutative Property in Action

### 1. Addition:

- Example: If  $a = 3$  and  $b = 5$ , then:
- $3 + 5 = 5 + 3$
- Using a turnaround phrase: "3 plus 5 is the same as 5 plus 3."

### 2. Multiplication:

- Example: If  $a = 4$  and  $b = 6$ , then:

- $4 \times 6 = 6 \times 4$
- Using a turnaround phrase: "4 times 6 is the same as 6 times 4."

By using these phrases, students can internalize the concept that the order of numbers does not impact the result, making it easier to manipulate equations.

## Importance of Turn Around Phrases in Learning

Turnaround phrases serve multiple purposes in the learning process. Here are some key reasons why they are beneficial:

1. Clarification of Concepts:

- They simplify complex mathematical ideas, allowing students to grasp foundational concepts easily.

2. Reinforcement of Properties:

- Students can remember and apply the properties of operations, such as commutativity and associativity, by using these phrases.

3. Enhanced Problem-Solving Skills:

- Turnaround phrases encourage flexibility in thinking, enabling students to approach problems from different angles.

4. Improved Communication:

- They help in articulating mathematical thoughts clearly, which is essential for collaborative learning and discussions.

5. Greater Confidence:

- By understanding and using turnaround phrases, students often feel more confident in their mathematical abilities, leading to better performance.

## Examples of Turn Around Phrases

To better understand how turnaround phrases function, let's examine various mathematical operations and their corresponding phrases.

### Turn Around Phrases for Addition

- "The sum of a and b is the same as the sum of b and a."
- "If you add 5 to 10, it is the same as adding 10 to 5."
- "Combining 7 and 2 yields the same result as combining 2 and 7."

## Turn Around Phrases for Subtraction

While subtraction is not commutative, there are phrases that can help students understand its properties:

- "If you subtract  $b$  from  $a$ , it's not the same as subtracting  $a$  from  $b$ ."
- "Taking away 3 from 10 is different from taking away 10 from 3."

## Turn Around Phrases for Multiplication

- "The product of  $a$  and  $b$  is the same as the product of  $b$  and  $a$ ."
- "Multiplying 4 by 3 gives the same answer as multiplying 3 by 4."
- "When you multiply 5 by 2, it's equivalent to multiplying 2 by 5."

## Turn Around Phrases for Division

Division, like subtraction, is not commutative, but it can also be explained with phrases:

- "Dividing  $a$  by  $b$  is not the same as dividing  $b$  by  $a$ ."
- "If you divide 12 by 4, it's different from dividing 4 by 12."

## Using Turn Around Phrases in the Classroom

Teachers can incorporate turnaround phrases into their lessons in various engaging ways:

### 1. Interactive Activities:

- Create games or group activities where students use turnaround phrases to solve problems collaboratively.

### 2. Visual Aids:

- Use charts or posters that highlight key turnaround phrases for different operations. This can serve as a reference for students during lessons.

### 3. Storytelling:

- Encourage students to create stories or scenarios that incorporate turnaround phrases. This can make learning more relatable and memorable.

### 4. Flashcards:

- Develop flashcards that feature equations on one side and the corresponding turnaround phrases on the other. This can be an effective study tool.

### 5. Peer Teaching:

- Allow students to teach each other using turnaround phrases. Teaching reinforces their understanding and builds confidence.

# Challenges and Solutions

While turnaround phrases are beneficial, some challenges may arise in their implementation:

1. Misunderstanding:

- Solution: Provide clear examples and visual representations. Use manipulatives to demonstrate the concepts tangibly.

2. Lack of Engagement:

- Solution: Incorporate technology, such as interactive math software or apps, to make learning more engaging.

3. Confusion with Negative Numbers:

- Students may struggle with the concept of turnaround phrases when negative numbers are involved.

- Solution: Introduce negative numbers gradually and use real-life examples to illustrate how turnaround phrases still apply.

## Conclusion

In conclusion, turnaround phrases in math are invaluable tools that can significantly enhance the learning experience for students. By simplifying complex mathematical concepts, reinforcing fundamental properties, and encouraging effective communication, these phrases play a crucial role in developing students' mathematical understanding and confidence. By incorporating various teaching strategies and addressing potential challenges, educators can ensure that students not only learn but also appreciate the beauty and logic of mathematics. As students become proficient in recognizing and utilizing turnaround phrases, they will find themselves better equipped to tackle more complex mathematical problems in their academic journey.

## Frequently Asked Questions

### What are turn around phrases in math?

Turn around phrases in math are specific statements or phrases that help students understand the commutative property of addition and multiplication by showing that changing the order of numbers does not change the result.

### Can you give an example of a turn around phrase for addition?

An example of a turn around phrase for addition is ' $a + b = b + a$ ', which illustrates that the sum remains the same regardless of the order of the addends.

### How do turn around phrases aid in teaching math?

Turn around phrases aid in teaching math by reinforcing the concept of equality and helping students internalize the properties of operations, making it easier for them to solve problems.

## Are turn around phrases applicable to subtraction or division?

No, turn around phrases do not apply to subtraction or division, as these operations are not commutative; changing the order of the numbers will change the result.

## What is a common turn around phrase for multiplication?

A common turn around phrase for multiplication is ' $a \times b = b \times a$ ', demonstrating that the product remains the same regardless of the order of the factors.

## How can educators effectively introduce turn around phrases to students?

Educators can introduce turn around phrases through interactive activities, visual aids, and by encouraging students to verbalize their thought processes while solving problems.

## What grade levels benefit most from learning turn around phrases?

Turn around phrases are particularly beneficial for early elementary grades, typically around 1st to 3rd grade, as students begin to explore basic arithmetic operations.

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