

**SPIN THE WHEEL**

**\$300**  
Which property justifies the statement below?

**\$500**  
Which property justifies the statement below?

**\$400**  
Which property justifies the statement below?

**\$700**  
Which property justifies the statement "if  $10 + 6 = 16$ , and  $16 = 4^2$ , then  $10 + 6 = 4^2$ ?"

A. Symmetric      C. Commutative  
B. Identity         D. Transitive

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# PROPERTIES

*(Algebra / Version)*

**"SPIN TO WIN" GAME**



# ALGEBRA PROPERTIES

## Spin to Win Game!

**Objective:** Students will practice identifying the properties of real numbers with this "Spin to Win" game. This includes the commutative property addition, commutative property of multiplication, associative property of addition, associative property of multiplication, identity property of addition, identity property of multiplication, inverse property of addition, inverse property of multiplication, zero property of multiplication, distributive property, reflexive property, symmetric property, transitive property, and closure property. There are 44 problems in the game!

### Directions:

- 1) Divide the class into two teams and open the PowerPoint to run the game.
- 2) Choose one student to come up to the board and spin the wheel. To spin, touch the center of the wheel (where it says "Spin the Wheel"), let it go around a few times, then touch the center of the wheel again to stop. Wherever it lands, choose this dollar amount from the side column.
- 3) A problem will appear. If this problem has already been picked, simply click the next button. There are two problems per spot on the wheel in case of repeats. The team that spun answers the question. Click on "Answer" to check. If they answer correctly, they get the points. Click "Back" to return to the wheel and spin again.

**\$300**

Which property justifies the statement below?  
 $(-5 + 3) + 8 = -5 + (3 + 8)$

A. Commutative      C. Distributive  
B. Inverse          D. Associative

**\$500**

Which property justifies the statement below?  
If  $k = 6$ , then  $6 = k$

A. Identity          C. Commutative  
B. Symmetric      D. Reflexive

**\$400**

Which property justifies the statement below?  
 $5(x - 9) = 5x + 5(-9)$

A. Associative      C. Commutative  
B. Distributive     D. Identity

**\$5000**

The perfect squares are closed under which operation?

A. Addition  
B. Subtraction  
C. Multiplication  
D. Division

**\$700**

Which property justifies the statement "if  $10 + 6 = 16$ , and  $16 = 4^2$ , then  $10 + 6 = 4^2$ ?"

A. Symmetric      C. Commutative  
B. Identity          D. Transitive