Gross
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Title Deed
Additive Identity

Rent: When 0 is added to any number, the sum is the number.

With 1 house = $8+0=8$

With 2 houses = $0+27=27$

With 3 houses = $p+0=p$

With hotel = $0+m=m$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Substitution Property of Equality

Rent: If two quantities are equal, then one quantity can be replaced by the other.

($m = 8$, $x = 3$, $n = 11$)

With 1 house = $6m-2x$
$6 \cdot 8 - 2 \cdot 3$

With hotel = $20-4$
16

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Commutative Property of Addition

Rent: The order in which numbers are added does not change the sum.

With 1 house = $2+3=3+2$

With 2 houses = $8+c=c+8$

With 3 houses = $(6+5)+9=9+(6+5)$

With hotel = $(3a+b)+2c=2c+(b+3a)$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Commutative Property of Multiplication

Rent: The order in which numbers are multiplied does not change the product.

With 1 house = $4 \cdot 7 = 7 \cdot 4$

With 2 houses = $acf = afc$

With 3 houses = $l(w4)=(w4)l$

With hotel = $rat = tar$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Multiplicative Identity

Rent: When any number is multiplied by 1, the product is the number.

With 1 house = $4 \cdot 1 = 4$

With 2 houses = $1 \cdot 49 = 49$

With 3 houses = $s \cdot 1 = s$

With hotel = $1h = h$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Multiplicative Property of Zero

Rent: When any number is multiplied by 0, the product is 0.

With 1 house = $6 \cdot 0 = 0$

With 2 houses = $0 \cdot 14 = 0$

With 3 houses = $r \cdot 0 = 0$

With hotel = $5t \cdot 0 = 0$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Associative Property of Addition

Rent: The way in which numbers are grouped when added does not change the sum.

With 1 house = $(5+8)+2=5+(8+2)$

With hotel = $6+(9+e)=(6+9)+e$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Associative Property of Multiplication

Rent: The way in which numbers are grouped does not change the product.

With 1 house = $(4\cdot6)3=6(4\cdot3)$

With 2 houses = $p(ot)=t(op)$

With hotel = $8(y\cdot6)=(8\cdot6)y$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Symmetric Property of Equality

Rent: If one quantity equals a second quantity, then the second quantity also equals the first.

With 1 house = if $10=4+6$ then $4+6=10$

With 2 houses = if $3\cdot5=15$ then $15=3\cdot5$

With hotel = if $a=b$ then $b=a$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Transitive Property of Equality

Rent: If one quantity equals a second quantity and the second quantity equals a third quantity, then the first equals the third.

With 1 house = if $3+5=8$ and $8=2\cdot4$ then $3+5=2\cdot4$

With hotel = if $a=b$ and $b=c$ then $a=c$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Distributive Property

Rent: To multiply a number by a sum, multiply each number inside the parentheses by the number outside the parentheses.

With 1 house = $3(45)$
$120+15$
135

With hotel = $-7(x+5)$
$-7x-35$

If a player knows all the properties in math, their rent is doubled on all lots.

Title Deed
Reflexive

Rent: Any number or expression is equivalent to itself.

With 1 house = $t=t$

With 2 houses = $9\cdot6=9\cdot6$

With 3 houses = $if=if$

With hotel = $7j=7j$

If a player knows all the properties in math, their rent is doubled on all lots.