Function Notation & Inverse Function

**SQUARE UP!**

**Directions:** Players will solve their problems simultaneously. You may solve the problems in any order you choose. When you finish a problem, shade in the equivalent answer on the board. If the answer has already been shaded in by your opponent, move on to the next problem. The player with the most squares on the board wins. If you shade in an incorrect answer, your opponent can claim the square not all squares will be used.

**Player 2**

**Player 1**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$f\left(x\right)=3x+2$ $h^{-1}\left(m\right)=\frac{x-1}{2}$

$g\left(x\right)=-5x^{2}-2x$ $j\left(k\right)=2k^{2}-4$

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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$g\left(x\right)=-5x^{2}-2x$ $j\left(k\right)=2k^{2}-4$

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| -72 | 8 | 124 | 92 | -88 |
| -7 | 24 | 81 | 2 | 11 |
| 42 | -4 | 0 | 3 | 31 |
| -132 | 5 | 76 | -115 | 1 |
| 29 | 108 | -24 | -4 | 50 |

1. f(-3) =
2. h-1(-7) =
3. g(4) =
4. j(8) =
5. g(5) =
6. f(2) + h-1(-5) =
7. j(-3) – h-1(7) =
8. f(g(-3)) =
9. f(-2) =
10. h-1(3) =
11. g(2) =
12. j(-8) =
13. g(-4) =
14. f(-2) + h-1(5) =
15. j(-3) – h-1(7) =
16. f(g(-2)) =

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**Player 2**

**Player 1**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$f\left(x\right)=3x+2$ $h\left(m\right)=-3m-9$

$g\left(x\right)=-5x^{2}-2x$ $j\left(k\right)=2k^{2}-4$

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$f\left(x\right)=3x+2$ $h\left(m\right)=-3m-9$

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| -72 | 8 | ~~124~~ | 92 | -88 |
| -7 | 24 | 81 | ~~-16~~ | 11 |
| 42 | -4 | 0 | 3 | 31 |
| -135 | -10 | 46 | -115 | -18 |
| ~~29~~ | 108 | -24 | -3 | 50 |

1. f(-2) =
2. h(3) =
3. g(2) =
4. j(-8) =
5. g(-4) =
6. f(-1) + h(2) =
7. j(-3) – h(2) =
8. f(g(-2)) =
9. f(-3) =
10. h(-3) =
11. g(4) =
12. j(8) =
13. g(5) =
14. f(-2) + h(1) =
15. j(-3) – h(2) =
16. f(g(-3)) =

Name: ­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Year \_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| C:\Users\Owner\Desktop\download.png **Mild Spicy** | **Medium Spicy** | **Hot & Spicy** |
| $$(8+2)÷10$$ | $$\frac{8÷9×3}{6-1}$$ | $$\left(10+2×4^{2}\right)÷6+3×5$$ |
| $$6+3²×2$$ | $$60-\left(7^{2}+2×5\right)$$ | $$((3×5²-3)÷(3^{2}+3))×2²$$ |
| $$7 ×(15-3 × 2)$$ | $$7×6-5×4+1×3$$ | Insert bracket to make the calculation correct.$$20+12÷3+1=23$$ |
| $$22+6² ÷ 2+1$$ | $$(6×3+2)÷(4+2×3)$$ | Insert bracket to make the calculation correct.$$16+4×2÷3=8$$ |

 **MIXED OPERATION ON WHOLE NUMBERS**

I found this tricky. I need someone to help me.

I understood most of it but need more practice.

I get it! I understood. I’m ready for the next step

**Self-reflection** (Do ✔ below)

**CHALLENGE TIME**

Insert the correct symbols: $ \left(\right), +, -, ×, ÷$. To make the calculation correct.

$$5 4 3 1 2 1 = 12$$