Name: _____ Period: _____ Date: _____

2-4 Solving Equations with Variables on Both Sides - Christmas Color Match Activity

5

Zero

Both

Distributive

−4

−5

0

5

Zero

−4

−5

Identity

−4

7

5

24

Distributive
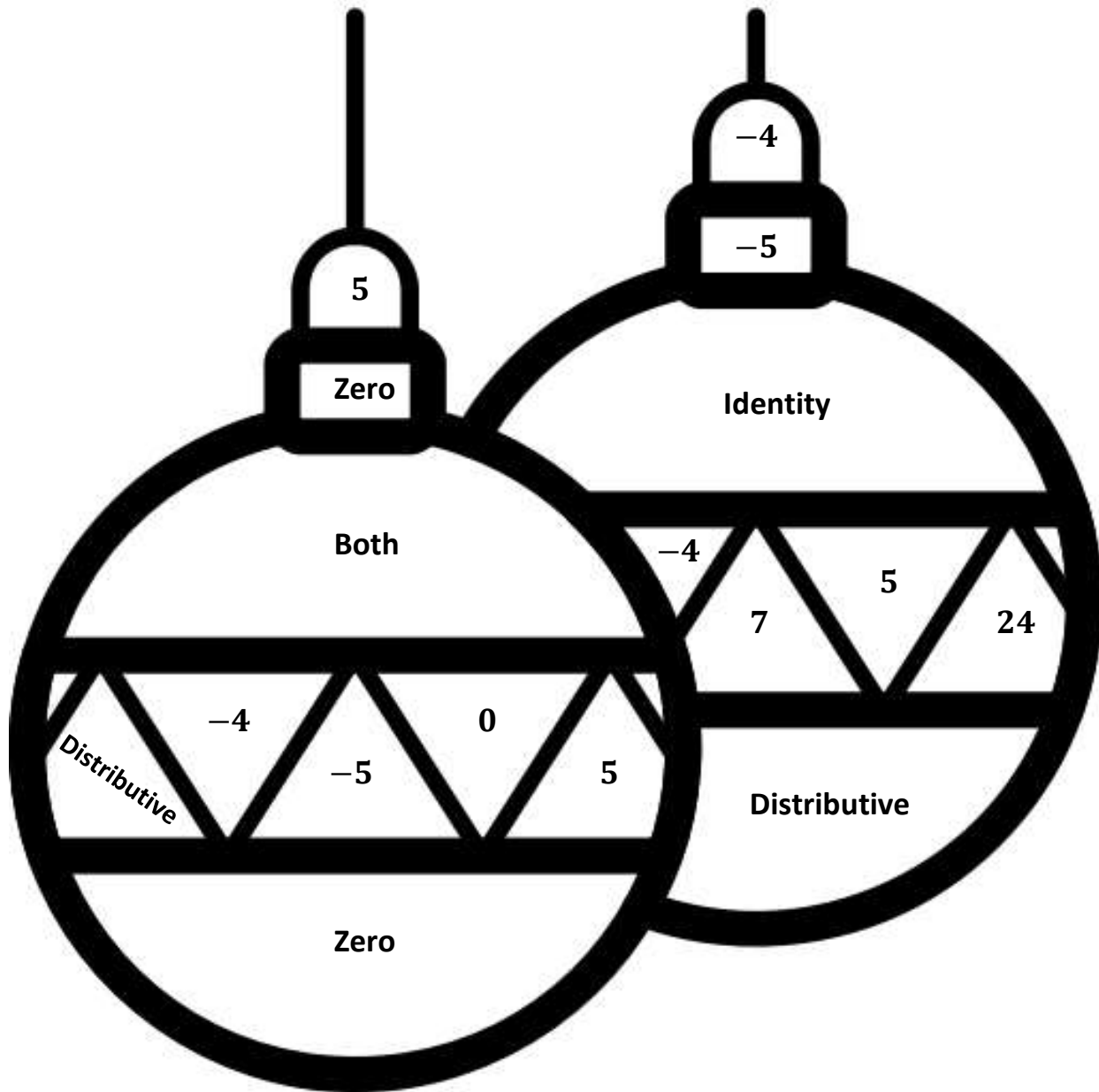
Directions: Answer the questions. Find your answer on the Christmas Ornaments, then color according to your answers.

1. An equation of the form $ax \pm b = cx \pm d$ is an equation with variable on _____ side(s) of the equality. **(ORANGE)**

2. In solving the equation $5(2x - 2) = 2(5x - 5)$, the first step is to apply _____ property. **(YELLOW)**

3. An equation that is true for all values of the variable is known as _____ equation. **(RED)**

4. The equation $9x - 4 = -3x + 5 + 12x$ has _____ solution(s). **(GREEN)**

5. The solution of the equation $8x - 6 = 5x - 18$ is _____. **(BROWN)**

6. The solution of the equation $a - 100 = -16a - 15$ is _____. **(BLUE)**

7. The solution of the equation $-3z - 1 = +2z - 1$ is _____. **(GREY)**

8. The solution of the equation $2(5x + 1) = 4(x + 11)$ is _____. **(GREEN)**

9. The solution of the equation $4(2f + 1) = 2(f - 13)$ is _____. **(RED)**

10. The solution of the equation $\frac{h}{2} + 3 = 3\left(\frac{h}{4} - 1\right)$ is _____. **(ORANGE)**

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