

Two Truths and One Lie: Hanukkah Edition

Directions: Solve the three equations. Determine which two are true and which one is a lie. Explain your answer to a partner or group by drawing on information from the equations.



= 2



= 5



= 10

A. $(\text{dreidel} \times \text{donut}) \times \text{menorah} = \text{dreidel} \times (\text{menorah} \times \text{donut})$

B. $\text{dreidel} \times \text{menorah} = \text{menorah} \times \text{dreidel}$

C. $(\text{donut} \times \text{dreidel}) \times \text{menorah} = \text{donut} \times (\text{menorah} \times \text{donut})$

1. Which equations are true? _____ and _____. How do you know? _____

2. Which equation is a lie? _____. How do you know? _____
