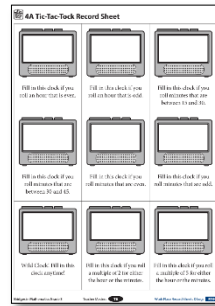# 4A Tic-Tac-Tock

Materials

You will share a set of dice – 2 blue 1-6 die, 1 green 1-6 die, and 1 white 4-9 die and a student clock:

Each person needs a Record Sheet:

How to Play

Step 1: Players decide who will go first.

Step 2: Each turn you will:

- Roll the two blue dice and find the **sum** of the numbers. Explain how you found the sum to your partner.
- Set the sum of the blue dice as the hour hand on your clock.
- Then roll the green and white die together. Multiply the two numbers to find the **product**. Explain how you found your answer.
- Set the minute hand of your clock using the product.
- Read the time on your clock.

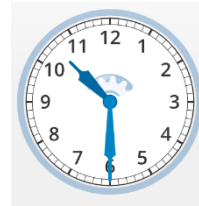"I rolled a 6 and 4 so my **sum** is ten. So, I set the hour hand to ten."

4A Tic-Tac-Tock

"Then I rolled a 6 and 5 for the minutes. 6 times 5 is 30. So, I will set the minute to 30 minutes. My time is 10:30."

Step 3: Player 1 then finds a clock on her record sheet that can be filled in using the time she made.

Step 4: Player 2 takes a turn and repeats Steps 2 and 3.

Step 5: Keep taking turns until one player has filled in 3 clocks in a row. Rows can be horizontal, vertical, or diagonal. The first one to do this wins the game.

Game Variations:

- Play for blackout: the first to fill in all 9 clocks wins.
- Play with 1 recording sheet instead of two. Play like actual tic-tac-toe and try to get three in a row before your partner.
- Make your own new game sheet with your own descriptions. Just make sure your descriptions are possible. For example, there is no way to get the time 1:47 because you can't add to get 1 or multiply to get 47 with the dice you use.