

# 24<sup>®</sup> game

## Teacher's Tools | Classroom Activities

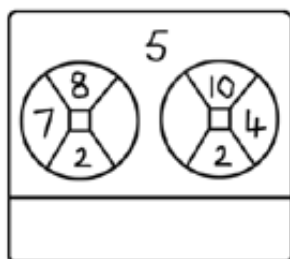


### Activity—Grouping Skills

Editions used: Add/Subtract; Multiply/Divide; Fractions Primer (2 and 3 dot cards only)

The example below uses a Multiply/Divide 2 Dot card. (You can do this activity with Add/ Subtract cards, using only addition and subtraction.) The purpose of this activity is to encourage students to practice grouping skills.

Select a card and draw the two wheels and the target number on the board. (Or display a card from the First In Math website) Ask a student to choose a wheel, then choose two numbers from that wheel. Write the two numbers on the board four times, with a space for the operation sign.



Example: Numbers 8 and 2 are chosen from left wheel. Ask: *What operations can I use?*

Ask: *What will be the answer for the first equation?*

$$8 + 2 = 10$$

$$8 - 2 = 6$$

Change the 8 to a 7.

$$8 \times 2 = 16$$

$$8 \div 2 = 4$$

Ask: *With the 10 we made, and with the number 7 remaining, can we make a 5? (No.) Let's try another equation.*

Ask: *With the 6 we made, and the number 7 remaining, can we make a 5? (No.) Let's try another equation.*

Ask: *With the 16 we made, and with the number 7 remaining, can we make a 5? (No.) Let's try the another equation.*

Ask: *With the 4 we made, and the number 7 remaining on the wheel, can we make a 5? (No.) Because those equations did not work, let's try two other numbers on this wheel.*

When doing this activity with Multiply/Divide Primer cards, have the class cycle through all the pairs of numbers on one wheel before moving on to the other wheel. Then, repeat the activity using two numbers from the other wheel.