

Home Connection 23 ★ Activity



NOTE TO FAMILIES

Students played this game together as a class and in partners, and now they'll teach you. In Quad Spin & Win, players use 4 numbers to build the smallest or largest 4-digit number they can. You'll begin by spinning the more or less spinner to decide whether you'll each try to build the largest or smallest number possible. Then, you'll each spin the number spinner 4 times. Each time, you have to decide where to put your number: in the ones, tens, hundreds, or thousands place. Once you've placed your number, you can't change your mind, so you'll need to think carefully about your chances of rolling a higher or lower number in future spins. Your child can help you use a pencil and paperclip to make a spinner. Remind your child to complete the worksheet and return it to school with the record sheets.

You'll need a pencil, paperclip, and 2 record sheets.

Instructions for Quad Spin & Win

1 Write both players' names at the top of the record sheet.

2 Spin the more or less spinner first and circle whether you're playing for more or less in this round.

3 Take turns spinning and sketching your spin. The sketches are based on the base ten pieces we use to build numbers in class: the ones are small dots, the tens are skinny strips, the hundreds are squares, and the thousands are long rectangles. (See the example to the right.)

4 After four spins, record your totals and circle the winner.

Home Connections
NAME Ravi DATE _____
Home Connection 23 Activity (cont.)
Quad Spin & Win Record Sheet page 1 of 2
Player A Ravi Player B Aunt Nina

Round 1 We played for MORE less

1000's 	100's 	10's 	1's 	Player A Total 3657
1000's 	100's 	10's 	1's 	Player B Total 3438

5 Play two more rounds.

NAME _____

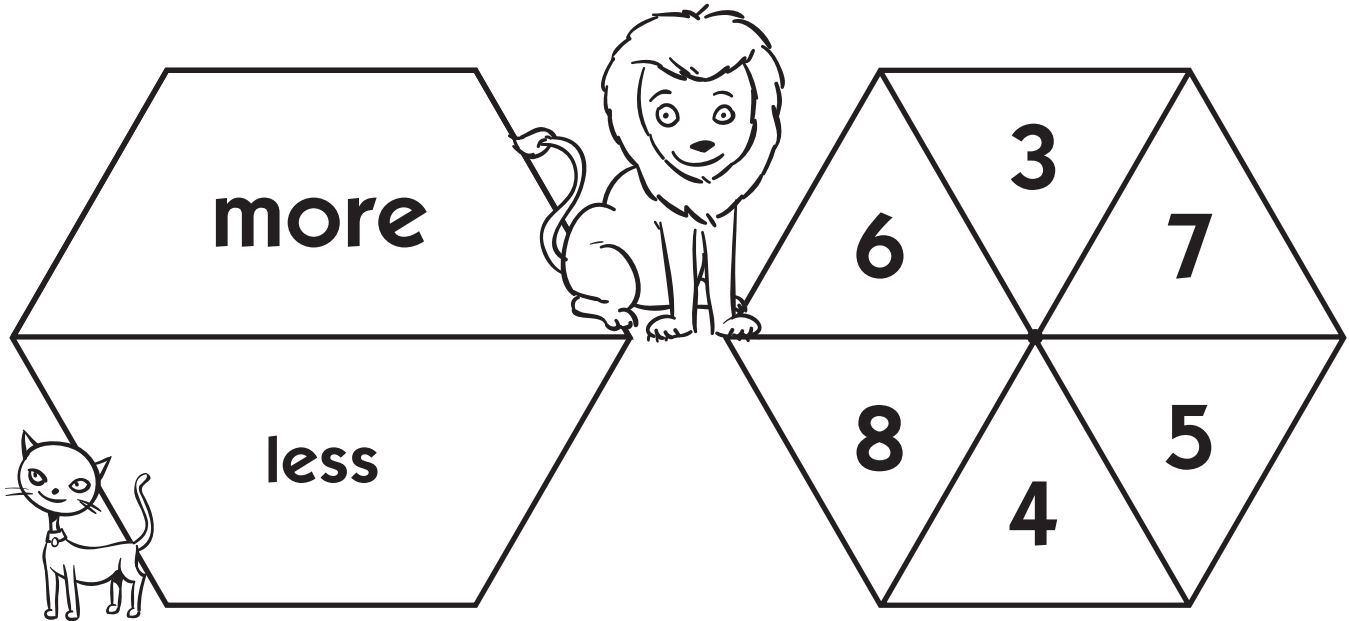
DATE _____

Home Connection 23 Activity (cont.)

Quad Spin & Win Record Sheet page 1 of 2

Player A _____

Player B _____



Round 1

We played for



MORE



less

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

NAME _____

DATE _____

Home Connection 23 Activity (cont.)

Quad Spin & Win Record Sheet

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 Player A _____  Player B _____

 Round 2 We played for  **MORE**  **less**

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

 Round 3 We played for  **MORE**  **less**

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

NAME _____

DATE _____

Home Connection 23 ★ Worksheet



NOTE TO FAMILIES

Your child will record five of the 4-digit numbers from the game you just played in expanded notation and in words. If your child is up for a challenge ask her or him to find the difference between 2 of the numbers from your game.

Four-Digit Numbers

example Your total: 3438

expanded notation: $3438 = 3000 + 400 + 30 + 8$

words: three thousand, four hundred, thirty-eight

1 Your total from round one: _____

expanded notation: _____

words: _____

2 Your total from round two: _____

expanded notation: _____

words: _____

3 Your total from round three: _____

expanded notation: _____

words: _____

Continued on back.

Home Connection 23 Worksheet (cont.)

4 Your partner's total from round one: _____

expanded notation: _____

words: _____

5 Your partner's total from round two: _____

expanded notation: _____

words: _____



CHALLENGE

6 Find the exact difference between your number and your partner's number from one of the rounds of Quad Spin & Win. Show your thinking below.