

High-Number Toss

- Materials**
- 1 six-sided die
 - 1 *High-Number Toss Record Sheet* (*Math Masters*, p. G10)
- Players** 2
- Skill** Understanding place value; using exponents for powers of 10
- Object of the Game** To make the largest numbers possible.

Directions

- 1 Player 1 rolls the die and writes the number on any of his or her 4 short blank lines. It does not have to be the first blank—it can be any of them. Note that the last blank line is in the exponent position.
- 2 Player 2 rolls the die and writes the number on any of his or her blank lines.
- 3 Players take turns rolling the die and writing the number until each player has a number on each of the 4 lines.
- 4 Each player then uses the 4 numbers to build a number.
 - The numbers on the first 3 blanks represent a 3-digit number.
 - The number on the last blank is an exponent for a power of 10.
 - Multiply the 3-digit number and the power of 10. Write your number in standard notation on the long line.
- 5 Players read their numbers. Compare the numbers and write a relation symbol ($<$, $>$, or $=$) between the numbers. The player with the larger number wins the round. In the case of a tie, replay the round.

Note If you don't have a die, you can use a deck of number cards. Use all cards with the numbers 1–6. Instead of rolling the die, draw the top card from the number-side down deck.

Hundred Millions	Ten Millions	Millions	,	Hundred Thousands	Ten Thousands	Thousands	,	Hundreds	Tens	Ones
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Example

Player 1: $\overline{1 \quad 3 \quad 2} * 10^6 = \underline{132,000,000}$

Player 2: $\overline{3 \quad 5 \quad 6} * 10^4 = \underline{3,560,000}$

Player 1 has the larger number and wins the round.

High-Number Toss Record Sheet



NAME	DATE	TIME
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Hundred-Millions	Ten-Millions	Millions	,	Hundred-Thousands	Ten-Thousands	Thousands	,	Hundreds	Tens	Ones
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Round	Player 1	>, <, =	Player 2
Sample	$\underline{1} \ \underline{3} \ \underline{2} * 10^6$ <u>132,000,000</u>	>	$\underline{3} \ \underline{5} \ \underline{6} * 10^4$ <u>3,560,000</u>
1	___ ___ ___ * 10 [—] _____		___ ___ ___ * 10 [—] _____
2	___ ___ ___ * 10 [—] _____		___ ___ ___ * 10 [—] _____
3	___ ___ ___ * 10 [—] _____		___ ___ ___ * 10 [—] _____
4	___ ___ ___ * 10 [—] _____		___ ___ ___ * 10 [—] _____
5	___ ___ ___ * 10 [—] _____		___ ___ ___ * 10 [—] _____

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