

Place-value dice can be used for a variety of place value and probability activities.

This set of seven dice can be used to demonstrate place values of ones, tens, hundreds, thousands, ten thousands, hundred thousands, and millions. Dice are color-coded to match the Place Value Rod Activity Set (LER5210) as well as other place-value products available from Learning Resources®.

Ones Dice	Tens Dice	Hundreds Dice	Thousands Dice	Ten Thousands Dice	Hundred Thousands Dice	Millions Dice
0	00	000	0,000	00,000	000,000	0,000,000
1	10	100	1,000	10,000	100,000	1,000,000
2	20	200	2,000	20,000	200,000	2,000,000
3	30	300	3,000	30,000	300,000	3,000,000
4	40	400	4,000	40,000	400,000	4,000,000
5	50	500	5,000	50,000	500,000	5,000,000
6	60	600	6,000	60,000	600,000	6,000,000
7	70	700	7,000	70,000	700,000	7,000,000
8	80	800	8,000	80,000	800,000	8,000,000
9	90	900	9,000	90,000	900,000	9,000,000

Adding Up Values

Give the ones, tens, hundreds, and thousands dice to a small group of four students. Each student should choose one die. On the count of three, have all students roll their dice. Starting with the orange thousands die, each student should state the number printed on his or her die. Have students write the numbers on a piece of paper and add them together. Students should compare answers and say the sum

aloud. For example, if the numbers rolled were 4000, 200, 10, and 1, they should say, “Four thousand two hundred eleven.” Have students pick new color dice and repeat the activity. To start with a smaller number, roll only two or three of the dice. For a challenge, use all of the dice to build larger numbers.

More or Less

Using the ones, tens, hundreds, and thousands dice, have four students each choose a die. Students should roll their dice at the same time and write down a four-digit figure incorporating the rolled numbers. Have students roll the dice a second time and write down a new four-digit number. Students should compare both four-digit numbers by asking questions about the figures. Which number is greater? Which number is smaller? Which number is in the thousands place? Once students are comfortable working with four-digit numbers, increase the skill level by adding the additional place-value dice for larger numbers.

Writing Numbers

Play a game that encourages students to practice writing numbers in expanded, written, or standard form. One student begins by calling out “expanded,” “written,” or “standard form.” Then, another student rolls all seven dice and calls out the numbers, starting with the largest number and ending with the smallest. Students should write the figure in the correct form. The first student to write the number correctly earns one point. For example, a student rolls the numbers 4, 20, 100, 3,000, 10,000, 200,000, and 4,000,000. The expanded form should be written as $4,000,000 + 200,000 + 10,000 + 3,000 + 100 + 20 + 4$.

The written form should be written as four million, two hundred thirteen thousand, one hundred twenty-four. The standard form should be written as 4,213,124. Continue playing in the same way with students taking turns being the roller and caller. The first student to earn ten points or another specified total wins! Simplify this game for students just beginning to learn place values by decreasing the number of dice.



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