Name _____ Date _____

What digits are worth

Every digit's place on the chart tells you its value, right up to the millions.

1 Learn



A digit's **place** tells you its **value**. In 4,739,152 the 7 is in the hundred thousands column, so it's worth **700,000**, not 7.

M	HTh	TTh	Th	H	T	O
4	7	3	9	1	5	2
4,000,000	700,000	30,000	9,000	100	50	2

4,739,152 = 4,000,000 + 700,000 + 30,000 + 9,000 + 100 + 50 + 2

Worked example: what is the 3 worth in 6,284,301?

1. Find the 3. Count the columns from the right: ones, tens, **hundreds**.
2. So the 3 is 3 hundreds.
3. Its value is **300**.
4. Check: 6,284,301 = 6,000,000 + 200,000 + 80,000 + 4,000 + **300** + 1.

the groups of three

6 ,	284 ,	301
million	thousand	H, T, O

Flip's tip: commas split a number into groups of three: **millions**, **thousands**, then hundreds, tens and ones. Each group repeats H, T, O.

Warm up: what is the underlined digit worth?

5,821,340 _____

2,603,519 _____

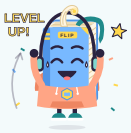
7,456,000 _____

9,000,402 _____

Grown-ups: ask "Which column is it in?" before "What is it worth?". If your child says just the digit (7), ask "7 what? 7 hundred thousands" and write the zeros together.

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2 Try it together a child and a grown-up, about 10 minutes



Digit spotter

You need: paper, a pen, and the digits 0 to 9 written on 10 scraps of paper, folded.

1. Draw a place value chart with 7 columns: **M, HTh, TTh, Th, H, T, O**.
2. Take turns to pick a scrap and write its digit in the next column, from the left. (If the first digit is 0, put it back and pick again.)
3. Read your seven-digit number aloud together.
4. Point to a digit. Your partner says which column it is in and what it is worth. Swap and point again.
5. Write what you found in the table. Fold the scraps and make a new number.

Our number	Digit	Its column	Its value

Grown-ups: keep the scraps for chapter 4. If you prefer, use a real big number you can see, such as the miles on a car or a long number on a box.

3 Practise

A. Write the value of the underlined digit.

3,2<u>8</u>4,615	6,072,9<u>4</u>0	1,<u>9</u>58,307	8,40<u>5</u>,126
_____	_____	_____	_____
4,610,<u>8</u>93	2,347,05<u>8</u>	<u>9</u>,513,270	7,0<u>6</u>9,481
_____	_____	_____	_____

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B. Fill the gaps to split each number into its parts.

3,506,240 = 3,000,000 + ☐ + 6,000 + ☐ + 40

8,090,705 = 8,000,000 + ☐ + 700 + ☐

1,234,567 = ☐ + 200,000 + ☐ + 4,000 + ☐ + 60 + 7

C. Draw a ring round every number where the **6** is worth **60,000**.

6,125,400 2,469,031 1,306,000 8,260,000 5,000,600

D. Write each number in digits.

5 millions, 2 hundred thousands, 0 ten thousands, 7 thousands, 3 hundreds, 0 tens and 9 ones _____

4 millions, 8 ten thousands, 6 hundreds and 1 one _____

E. Put the parts together. Write each number in digits.

7,000,000 + 30,000 + 400 + 5 = ☐

2,000,000 + 900,000 + 8 = ☐

60,000 + 4,000,000 + 1,000 = ☐

Challenge

Leo says, “The 7 in 4,739,152 is worth 7.” Is he right? Explain what it is really worth and how you know.

_____

_____

_____

I can... Tick when you can.

- ☐ say which column a digit is in, up to millions
- ☐ give the value of any digit, like 700,000
- ☐ split a seven-digit number into its parts