

# Expanded Form – The I-Ready Way

The number stays the same. The way we describe it can change.

Same number.  
Different forms.  
Bigger thinking!

## 1 What is each digit worth?

Each digit has a value based on its place.

**462,315**

| Digit | Place             | Value   |
|-------|-------------------|---------|
| 4     | hundred thousands | 400,000 |
| 6     | ten thousands     | 60,000  |
| 2     | thousands         | 2,000   |
| 3     | hundreds          | 300     |
| 1     | tens              | 10      |
| 5     | ones              | 5       |

### Try it!

1. In **583,247**, what is the value of the 8?

\_\_\_\_\_

2. In **704,639**, what is the value of the 6?

\_\_\_\_\_

## 2 Write the standard expanded form

Write each digit by its value.

**462,315 =**

$$400,000 + 60,000 + 2,000 + 300 + 10 + 5$$

### Try it!

Write the standard expanded form for each number. (Only non-zero parts.)

a) **583,247 =**

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

b) **706,389 =**

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

c) **120,045 =**

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

## 3 Use place-value units

We can describe each value using place-value units.

400,000 = **4 hundred thousands**

60,000 = **6 ten thousands**

2,000 = **2 thousands**

300 = **3 hundreds**

10 = **1 ten**

5 = **5 ones**

### Try it!

How many place-value units?

a) 700,000 = \_\_\_\_\_ hundred thousands

b) 90,000 = \_\_\_\_\_ ten thousands

c) 8,000 = \_\_\_\_\_ thousands

d) 400 = \_\_\_\_\_ hundreds

e) 70 = \_\_\_\_\_ tens

f) 6 = \_\_\_\_\_ ones

## 4 Trade the units

We can trade 1 larger unit for 10 of the next smaller unit.

**1 larger unit = 10 smaller units**

1 hundred thousand = 10 ten thousands

So, 4 hundred thousands = 40 ten thousands.

Now add the other 6 ten thousands:

40 ten thousands + 6 ten thousands = 46 ten thousands

**4 hundred thousands + 6 ten thousands = 46 ten thousands**

### Try it!

Complete the equivalent forms.

a) 5 hundred thousands + 8 ten thousands = \_\_\_\_\_ ten thousands

b) 3 hundred thousands + 4 ten thousands = \_\_\_\_\_ ten thousands

c) 7 hundred thousands + 2 ten thousands = \_\_\_\_\_ ten thousands

## 5 Same number, different form

Both of these expressions represent the same number.

**A**

4 hundred thousands  
+ 6 ten thousands  
+ 2 thousands  
+ 3 hundreds  
+ 1 ten  
+ 5 ones

**B**

46 ten thousands  
+ 2 thousands  
+ 3 hundreds  
+ 1 ten  
+ 5 ones

### Think about it!

1. Why are A and B both correct?

\_\_\_\_\_

2. What do we notice about the first two parts of each expression?

\_\_\_\_\_

## 6 Find the missing number

Fill in the missing number so that the expression is equal to the given number.

a) **462,315 =** \_\_\_\_\_ ten thousands  
+ 2 thousands  
+ 3 hundreds  
+ 1 ten  
+ 5 ones

b) **583,247 =** \_\_\_\_\_ ten thousands  
+ 3 thousands  
+ 2 hundreds  
+ 4 tens  
+ 7 ones

c) **706,389 =** \_\_\_\_\_ ten thousands  
+ 6 thousands  
+ 3 hundreds  
+ 8 tens  
+ 9 ones

## 7 The I-Ready Way

Which expression represents **583,247**? Choose one answer. Only one is correct.

- ☐ A. 58 ten thousands + 3 thousands + 2 hundreds + 4 tens + 7 ones
- ☐ B. 5 ten thousands + 83 thousands + 2 hundreds + 4 tens + 7 ones
- ☐ C. 583 ten thousands + 2 hundreds + 4 tens + 7 ones
- ☐ D. 58 thousands + 3 hundreds + 2 tens + 4 ones

Explain how you know:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**The number stays the same.  
The way we describe it can change.**

Stronger place value.  
Stronger mathematicians.