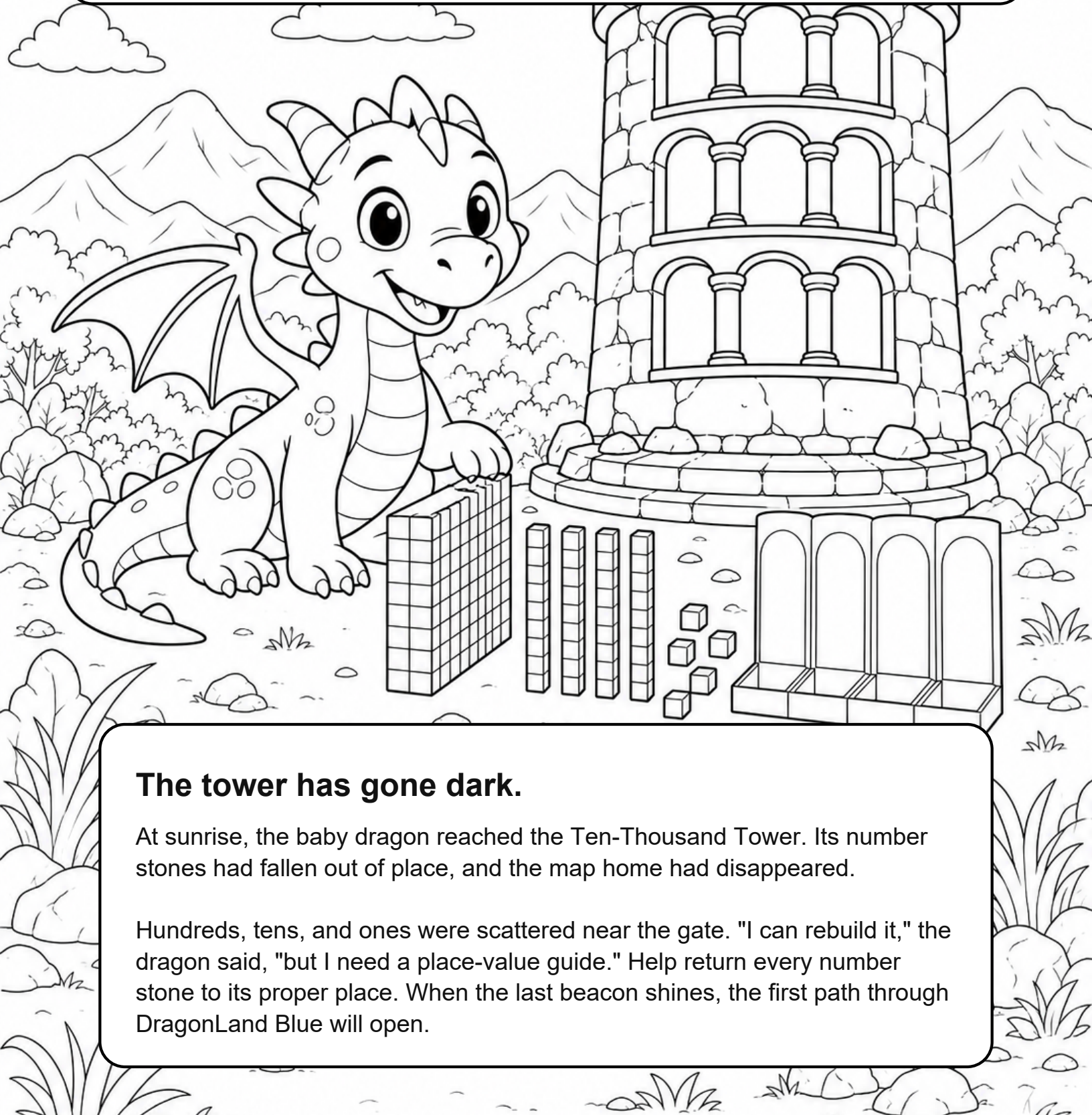


The Ten-Thousand Tower

A Grade 3 place-value adventure



The tower has gone dark.

At sunrise, the baby dragon reached the Ten-Thousand Tower. Its number stones had fallen out of place, and the map home had disappeared.

Hundreds, tens, and ones were scattered near the gate. "I can rebuild it," the dragon said, "but I need a place-value guide." Help return every number stone to its proper place. When the last beacon shines, the first path through DragonLand Blue will open.



ENTER THE TOWER

Your mission

Read, build, compare, and round whole numbers to 10,000.

Four tower levels. One path home.

1

Build the stones

Read digits by their place and write numbers in standard, expanded, and word form.

2

Choose the stronger beacon

Compare numbers from the greatest place first.

3

Find the nearest landmark

Round to the nearest ten, hundred, or thousand.

4

Light the final beacon

Use every place-value skill to open the map.

Mastery goal: represent, compare, and round numbers to 10,000 with 90% accuracy.

Read each place

Worked example: 6,482

Ten-thousands	Thousands	Hundreds	Tens	Ones
0	6	4	8	2

The digit 4 is in the hundreds place, so its value is 400.

$$6,482 = 6,000 + 400 + 80 + 2$$

- 1** In 6,482, what is the value of the digit 4?

- 2** Write 7,305 in expanded form.

Three ways to show a number

Standard form uses digits: 7,305

Expanded form shows each nonzero value: $7,000 + 300 + 5$

Word form names the number: seven thousand three hundred five

3 Write 4,072 in word form.

4 Build the number: 5 thousands, 8 hundreds, 0 tens, and 6 ones.

5 Write $2,000 + 600 + 40 + 7$ in standard form.

Tower tip: a zero holds a place. Do not drop it when you write the number.

Compare from left to right

Worked example

Compare 4,918 and 4,891. The thousands digits tie. The hundreds digits are 9 and 8. Since $9 > 8$, $4,918 > 4,891$.

6 Write $<$, $>$, or $=$: 4,918 ____ 4,891

7 Which is greatest: 3,842; 3,482; or 3,824?

8 Order from least to greatest: 6,109; 6,901; 6,190.

9 Choose the larger number: 7,090 or 7,900. Explain using place value.

Round with the neighbor digit

Worked example: round 8,647 to the nearest hundred.

The hundreds digit is 6. Look next door at the tens digit, 4. Since 4 is less than 5, keep the 6 and change the digits to its right to zero: 8,600.

0, 1, 2, 3, 4: keep the rounding digit. 5, 6, 7, 8, 9: raise it by 1.

10 Round 8,647 to the nearest hundred.

11 Round 3,451 to the nearest ten.

12 Round 7,550 to the nearest thousand.

13 A tower has 4,398 stones. Is that closer to 4,000 or 5,000?

Carry the stones upward

A low hum moves through the tower.

The first three beacons shine, but the highest window stays dark. The dragon gathers the last stones. "One more level," it whispers. "Then the map will return."

- 14** A beacon shows 9,204. What is the value of the digit 9?

- 15** Build the number: 5 thousands, 8 hundreds, 0 tens, and 6 ones.

- 16** Create a number greater than 6,500 but less than 6,600.

Sketch your own four-level number tower. Label the thousands, hundreds, tens, and ones levels.

The tower code

Show every step. The map opens only when the code is complete.

- 17** The final code is 8 thousands, 3 hundreds, 4 tens, and 2 ones. Write it in standard and expanded form.

- 18** Compare the final code with 8,324 using $<$, $>$, or $=$.

- 19** Round the final code 8,342 to the nearest hundred.

Explain how you know the final code is closer to 8,300 than 8,400.

Check your Magnitude Sight

Before the map appears, check the four skills you used.

- ☐ I can tell the value of a digit.
- ☐ I can write numbers in standard, expanded, and word form.
- ☐ I can compare and order numbers.
- ☐ I can round to a nearby ten, hundred, or thousand.

Show one number in three forms.

Standard form: _____

Expanded form: _____

Word form: _____

My strongest place-value move was:

QUEST COMPLETE

Magnitude Sight unlocked

The Ten-Thousand Tower shines again.



The final beacon flashes blue.

Light climbs every floor of the tower. The scattered stones lock into place, and a glowing road appears across the map.

The dragon blinks. Numbers near and far suddenly feel clear - greater, smaller, or close to a landmark. "I can see their magnitude," it says.

The eastern supply roads appear on the world map. Far beyond the tower, a broken bridge waits.

Adventurer's name