



GRADE 4 / WATCH MR DJ SOLVE

**TEN TIMES THE PLACE TO ITS RIGHT**

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****In 6,384, what is the value of the digit 6 in the thousands place? Explain using units.**

- 1 The digit counts 6 groups of 1,000.
- 2  $6 \times 1,000 = 6,000$ .
- 3 The value is 6,000
- 4 the digit itself is 6.

**Answer:** **6,000****REMEMBER** Each place-value unit is ten times the next unit to its right. A digit tells how many units of that size are present.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

## GRADE 4 / WORKED METHODS

**TEN TIMES THE PLACE TO ITS RIGHT**

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

**Name the units in a place-value chart**

**$6,384 = 6,000 + 300 + 80 + 4$**

1. Place the digits under thousands, hundreds, tens and ones.
2. The 6 counts thousands:  $6 \times 1,000 = 6,000$ .
3. Each step left changes the unit by a factor of ten.

6,384 in equal place-value columns

| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 6         | 3        | 8    | 4    |

$$6,000 + 300 + 80 + 4$$

## GRADE 4 / WORKED METHODS

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Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

**Track a whole-number multiplication by ten**

**$408 \times 10 = 4,080$**

1. 4 hundreds become 4 thousands.
2. 8 ones become 8 tens. The existing zero moves with the other digits.
3. A zero occupies the ones place. Explain the changed units rather than treating zero as an added amount.

Before: thousands | hundreds | tens | ones

0 | 4 | 0 | 8

After: 4 | 0 | 8 | 0



GRADE 4 / PRACTICE

# TEN TIMES THE PLACE TO ITS RIGHT

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

**◀ Mild** 1. In 57,208, what is the value of the digit 7 in the thousands place? Explain using units.

My answer / conclusion: \_\_\_\_\_

**◀ Mild** 2. In 40,440, what is the value of the digit 4 in the ten-thousands place? Explain using units.

My answer / conclusion: \_\_\_\_\_



Date \_\_\_\_\_

## TEN TIMES THE PLACE TO ITS RIGHT

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

**Medium** 3. Write the value of every 3 in 33,333. Explain the factor between neighboring values.

**Medium** 4. Compare the values of the two 6s in 6,060. How many times as much is the greater value?

My answer / conclusion: \_\_\_\_\_



Date \_\_\_\_\_

## TEN TIMES THE PLACE TO ITS RIGHT

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

**Medium** 5. Find  $408 \times 10$ . Describe what happens to the 4 and the 8.

My answer / conclusion: \_\_\_\_\_

**Spicy** 6. A student says the two 5s in 5,050 have the same value. Explain and correct the claim.

My answer / conclusion: \_\_\_\_\_



GRADE 4 / PRACTICE

# TEN TIMES THE PLACE TO ITS RIGHT

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Compare 200 and 90 using the same unit. Explain why comparing 2 and 9 alone fails.

Grid area for problem 7.

My answer / conclusion: \_\_\_\_\_

🔥🔥🔥🔥 Extra Spicy

8. A 7 moves two places left in a whole-number place-value chart. How does its value change? Explain without choosing a particular starting place.

Grid area for problem 8.

My answer / conclusion: \_\_\_\_\_