



GRADE 3 / WATCH MR DJ SOLVE

MULTIPLYING BY MULTIPLES OF TEN

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Find 3×40 . Use tens as the unit.**

- 1** 40 is 4 tens.
- 2** $3 \times 4 = 12$ tens.
- 3** 12 tens is 120.

Answer: **120****REMEMBER** multiply a one-digit number by a multiple of ten by counting tens.

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 3 / WORKED METHODS

MULTIPLYING BY MULTIPLES OF TEN

Read a complete example before trying the matching method.

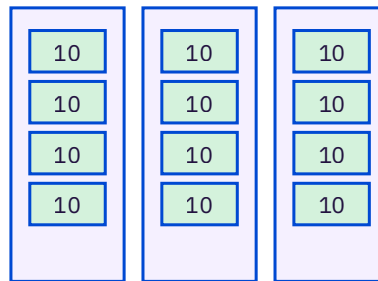


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Tens as the unit

$$3 \times 40 = 12 \text{ tens} = 120$$

1. 40 is 4 tens.
2. 3 groups of 4 tens make 12 tens.
3. 12 tens are 120 ones.



$$12 \text{ tens} = 120$$



GRADE 3 / WORKED METHODS

MULTIPLYING BY MULTIPLES OF TEN

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.

An array of tens

$$4 \times 30 = 12 \text{ tens} = 120$$

1. 30 is 3 tens.
2. 4 rows of 3 tens make 12 tens.
3. An array turn keeps the 12 tens.

GRADE 3 / MATHEMATICAL WORK TOOL

MULTIPLYING BY MULTIPLES OF TEN

Use labels and a clear scale.



Use one column per place value. Show an exchange without changing the total. For tens multiplication, label tens before converting to ones.

Hundreds	Tens	Ones



Date _____

MULTIPLYING BY MULTIPLES OF TEN

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

 **Mild**

 Mild

My answer / conclusion: _____

**GRADE 3 / PRACTICE****MULTIPLYING BY MULTIPLES OF TEN**

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.

Medium**3. Find 3×50 using 3×5 .**

My answer / conclusion: _____

Medium**4. Draw a model for 4×30 . Use one long bar for a ten.**

My answer / conclusion: _____



Date _____

MULTIPLYING BY MULTIPLES OF TEN

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

🍏🍏 Medium

My answer / conclusion: _____



Date _____

MULTIPLYING BY MULTIPLES OF TEN

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

🔥🔥🔥 **Spicy**

My answer / conclusion: _____



GRADE 3 / PRACTICE

MULTIPLYING BY MULTIPLES OF TEN

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. Explain why 3×40 and 4×30 agree.

Grid area for working out the answer.

My answer / conclusion: _____



Date _____

MULTIPLYING BY MULTIPLES OF TEN

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

8. Find two different one-digit-by-tens facts with product 120. Explain the link.

My answer / conclusion: _____