



GRADE 3 / WATCH MR DJ SOLVE

MISSING NUMBERS IN EQUATIONS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Find ? : $3 \times ? = 12$. Show a check.**

- 1 Find how many 3s make 12.
- 2 $12 \div 3 = 4$.
- 3 Check $3 \times 4 = 12$.

Answer: 4**REMEMBER** find the missing quantity and check the whole equation.

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

MISSING NUMBERS IN EQUATIONS

Read a complete example before trying the matching method.

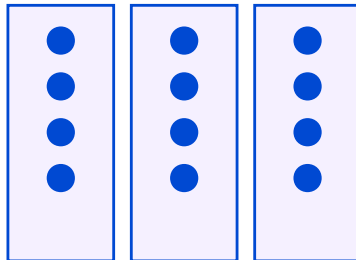


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A missing factor

$3 \times ? = 12$ means $? = 4$

1. The total is 12.
2. $12 \div 3 = 4$.
3. $3 \times 4 = 12$ checks the equation.



3 groups of 4 = 12



GRADE 3 / WORKED METHODS

MISSING NUMBERS IN EQUATIONS

Read a complete example before trying the matching method.

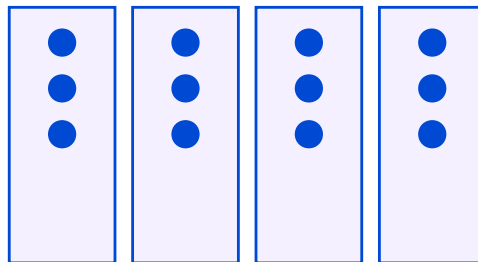


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A missing total

$? \div 3 = 4$ means $? = 12$

1. There are 3 equal groups of 4.
2. $3 \times 4 = 12$.
3. $12 \div 3 = 4$ checks the equation.



4 groups of 3 = 12

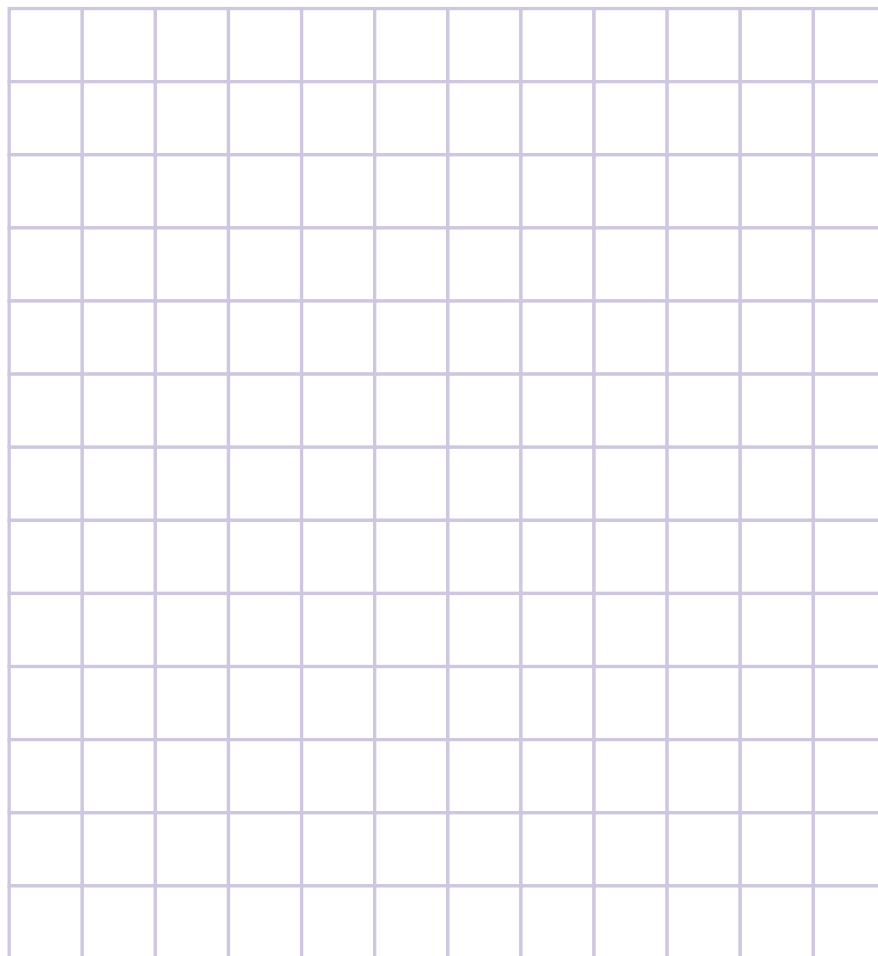
GRADE 3 / MATHEMATICAL WORK TOOL

MISSING NUMBERS IN EQUATIONS

Use labels and a clear scale.



Draw and label a model. Choose what one unit square means.





GRADE 3 / PRACTICE

MISSING NUMBERS IN EQUATIONS

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. Find $?$: $? \div 4 = 3$.

My answer / conclusion: _____

☛ Mild

2. Find $?$: $12 \div ? = 3$.

My answer / conclusion: _____



Date _____

MISSING NUMBERS IN EQUATIONS

A cartoon fox character 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 3. Find $?$: $12 = ? \times 4$.

My answer / conclusion: _____

Medium 4. Find $?$: $4 \times 4 = ?$ and check by division.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MISSING NUMBERS IN EQUATIONS

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

5. Draw an array for $? \times 3 = 15$. Label the missing factor.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MISSING NUMBERS IN EQUATIONS

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

6. Digit puts 9 into $3 \times ? = 12$. Explain and repair the choice.

Grid area for working out the solution to the equation $3 \times ? = 12$.

My answer / conclusion: _____



GRADE 3 / PRACTICE

MISSING NUMBERS IN EQUATIONS

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 $? \div 3 = 4$ and $3 \times ? = 12$ have different missing numbers.

Grid area for working out the solution.

My answer / conclusion: _____



Date _____

MISSING NUMBERS IN EQUATIONS

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

8. **Extra Spicy** Make three different missing-number equations with 3, 4, 12. Solve them.

My answer / conclusion: _____