

Missing Number Mission

Use multiplication and division to find each missing whole number.

GRADE 3 • NY-3.OA.4

NY-3.OA.4 "Determine the unknown whole number in a multiplication or division equation relating three whole numbers."

NAME _____

DATE _____

FIND THE MISSING NUMBER

A multiplication equation and a division equation can tell the same story. When one number is missing, use the related operation to find it, then check by putting your answer back into the equation.

WORKED EXAMPLE

Complete: $8 \times \underline{\quad} = 56$

1. The total is 56, and each group has 8.
2. Divide to find the number of groups: $56 / 8 = 7$.
3. Check: $8 \times 7 = 56$.

Answer: 7

PRACTICE 6 problems

1 Complete: $\underline{\quad} \times 7 = 42$

ANSWER _____

2 Complete: $63 / \underline{\quad} = 9$

ANSWER _____

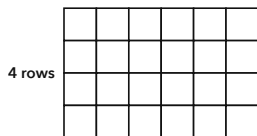
3 Complete: $6 \times \underline{\quad} = 54$

ANSWER _____

4 Complete: $\underline{\quad} / 5 = 7$

ANSWER _____

5 The array has 24 squares in 4 equal rows. Complete: $24 / 4 = \underline{\quad}$



ANSWER _____

6 Complete: $\underline{\quad} \times 3 = 27$

ANSWER _____

APPLY IT Show your work

- 1** Lena has 45 collectible cards. She puts the same number of cards on 5 album pages. How many cards go on each page? Complete: $45 \div 5 = \underline{\quad}$

WORK SPACE

ANSWER

- 2** A club packs 30 glow bracelets into bags. Each bag holds 6 bracelets. How many bags does the club use? Complete: $\underline{\quad} \times 6 = 30$

WORK SPACE

ANSWER

CHALLENGE One step up

A game has 42 points split equally among 6 rounds. Complete both equations: $42 \div 6 = \underline{\quad}$ and $\underline{\quad} \times 6 = 42$. Explain how the equations are related.

42 points

--	--	--	--	--	--

42 points

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Complete: $__\times 7 = 42$	6
2	Complete: $63 \div __ = 9$	7
3	Complete: $6 \times __ = 54$	9
4	Complete: $__ \div 5 = 7$	35
5	The array has 24 squares in 4 equal rows. Complete: $24 \div 4 = __$	6
6	Complete: $__ \times 3 = 27$	9

PART 2 • APPLY IT

1. **9** Divide the 45 cards equally among 5 pages. $45 \div 5 = 9$.
2. **5** Find how many groups of 6 make 30. $30 \div 6 = 5$, so $5 \times 6 = 30$.

CHALLENGE

7; 7. Division finds 7 points per round, and multiplication checks it: $7 \times 6 = 42$.

Accept the correct missing number written alone or within a complete equation. For the challenge, accept an explanation that multiplication and division undo each other, as long as both blanks are 7.