

Missing Number Mission

Find missing factors and products in equations.

GRADE 3 • TEKS 3.5.D

3.5.D "determine the unknown whole number in a multiplication or division equation relating three whole numbers when the unknown is either a missing factor or product; and"

NAME _____

DATE _____

FIND THE UNKNOWN

If a product is missing, multiply the factors. If a factor is missing, divide the product by the known factor.

WORKED EXAMPLE

$$9 \times n = 63$$

1. n is a missing factor.
2. Divide the product by the known factor.
3. $63 \div 9 = 7$.

Answer: $n = 7$

PRACTICE 6 problems

1 $a \times 6 = 42$

ANSWER _____

2 $5 \times b = 35$

ANSWER _____

3 $48 \div c = 6$

ANSWER _____

4 $d \div 4 = 11$

ANSWER _____

5 $12 \times e = 72$

ANSWER _____

6 $6 \times 8 = p$

ANSWER _____

APPLY IT Show your work

1 Jalen arranges 7 rows of 5 trading cards. How many trading cards does he arrange?

WORK SPACE

ANSWER _____

2 A class has 32 paintbrushes. They put the same number of paintbrushes into 4 supply cups. How many paintbrushes go in each cup?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A mystery number makes $6 \times x = 48$. Explain how you can use division to find x .

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$a \times 6 = 42$	a=7
2	$5 \times b = 35$	b=7
3	$48 \div c = 6$	c=8
4	$d \div 4 = 11$	d = 44
5	$12 \times e = 72$	e=6
6	$6 \times 8 = p$	p = 48

PART 2 • APPLY IT

1. **35 trading cards** Multiply the number of rows by the number of cards in each row. $7 \times 5 = 35$.
2. **8 paintbrushes** Divide the total number of paintbrushes by the number of cups. $32 \div 4 = 8$.

CHALLENGE

x = 8 because $48 \div 6 = 8$.

Accept answers written with or without the variable notation. For the challenge, accept an explanation that divides 48 by 6 to find 8.