LESSON MAKER PRO

Whole From Parts

Use unit fractions to make one whole.

GRADE 4 · 4.CE.3.d

4.CE.3.d "Apply the inverse property of multiplication in models (e.g., use a visual fraction model to represent 4/4 or 1 as the product of 4 × 1/4)."

NAME _____ DATE _____

MULTIPLY TO MAKE ONE

When one whole is split into equal parts, each part is a unit fraction. Multiplying the number of equal parts by one part makes one whole.

WORKED EXAMPLE

Look at the fraction bar. Write a multiplication equation that shows all the equal parts make one whole.



1. The bar is one whole split into 11 equal parts.
2. Each equal part is 1/11.
3. 11 x 1/11 = 11/11.
4. 11/11 = 1.

Answer: 11 x 1/11 = 1

PRACTICE 6 problems

1 Look at the fraction bar. Write a multiplication equation that shows the shaded parts make one whole.



ANSWER _____

2 Look at the fraction bar. Write a multiplication equation that shows the shaded parts make one whole.



ANSWER _____

3 Fill in the blank: 6 x ___ = 1

ANSWER _____

4 Fill in the blank: 7 x 1/7 = ___

ANSWER _____

5 Which equation has a product of 1? Circle A or B. A. 8 x 1/8 = 1 B. 8 x 1/7 = 1

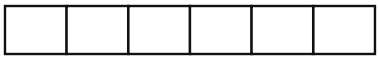
ANSWER _____

6 Write a multiplication equation to show that 9 equal parts of size 1/9 make one whole.

ANSWER _____

APPLY IT Show your work

1 At a robotics club, a game map is split into equal zones. The strip shows the entire map. Each zone is 1/6 of the map. Write a multiplication equation to show that all the zones make one whole map.

Game map  **1 whole**

ANSWER _____

2 A class playlist has 10 equal time slots. Each student chooses music for 1/10 of the playlist. When every slot is filled, write a multiplication equation that shows the playlist is complete.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Look at the fraction bar. Write an equation and explain why the shaded parts equal one whole.



WORK SPACE AND ANSWER

ANSWER KEY

Whole From Parts

GRADE 4 · 4.CE.3.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the fraction bar. Write a multiplication equation that shows the shaded parts make one whole.	**4 x 1/4 = 1**
2	Look at the fraction bar. Write a multiplication equation that shows the shaded parts make one whole.	**5 x 1/5 = 1**
3	Fill in the blank: 6 x ___ = 1	**1/6**
4	Fill in the blank: 7 x 1/7 = ___	**1**
5	Which equation has a product of 1? Circle A or B. A. 8 x 1/8 = 1 B. 8 x 1/7 = 1	**A**
6	Write a multiplication equation to show that 9 equal parts of size 1/9 make one whole.	**9 x 1/9 = 1**

PART 2 · APPLY IT

1. **6 x 1/6 = 1** There are 6 equal zones, and each zone is 1/6 of the map. Six groups of 1/6 make 1 whole.
2. **10 x 1/10 = 1** There are 10 equal parts, each worth 1/10. Multiplying 10 by 1/10 gives 1 whole playlist.

CHALLENGE

12 x 1/12 = 1. Twelve parts of size 1/12 make 12/12, which is one whole.

Accept equivalent equations that show the same product, such as 4/4 = 1 after 4 x 1/4. For the challenge, accept a clear explanation that all equal unit-fraction parts combine to make one whole.