

Match or Not

Compare both sides to choose the right symbol.

4.CE.2.d "Identify and use the appropriate symbol to distinguish between expressions that are equal and expressions that are not equal, using addition, subtraction, multiplication, and division (e.g., $4 \times 12 = 8 \times 6$ and $64 \div 8 \neq 8 \times 8$)."

NAME _____

DATE _____

SAME VALUE

Both expressions have the same value. Use the symbol =.

$$14 + 11 = 5 \times 5$$

DIFFERENT VALUE

The expressions have different values. Use the symbol $\neq$.

$$42 \div 6 \neq 10 - 2$$

1 SORT _____ 8 items

For Part 1, solve both sides, circle EQUAL or NOT EQUAL, and write = or $\neq$ in each blank; for Part 2, pick two items and explain how you knew.

1. 9×7 ____ $60 + 3$

EQUAL

NOT EQUAL

2. $48 \div 6$ ____ $5 + 3$

EQUAL

NOT EQUAL

3. $72 - 19$ ____ 8×7

EQUAL

NOT EQUAL

4. $45 + 18$ ____ 9×7

EQUAL

NOT EQUAL

5. $64 \div 8$ ____ 3×3

EQUAL

NOT EQUAL

6. $90 - 27$ ____ 7×8

EQUAL

NOT EQUAL

7. 6×8 ____ $50 - 2$

EQUAL

NOT EQUAL

8. $81 \div 9$ ____ $4 + 5$

EQUAL

NOT EQUAL

2 PROVE IT Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ HOW I KNEW _____

ITEM # _____ HOW I KNEW _____

3 MAKE YOUR OWN One of each

Write one new EQUAL example using = and one new NOT EQUAL example using $\neq$.

EQUAL _____

NOT EQUAL _____

CHALLENGE

Write two equal expressions. Each expression must use at least two operations. Use = and show the value of each side.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	$9 \times 7 \underline{\hspace{1cm}} 60 + 3$	EQUAL	$9 \times 7 = 63$ and $60 + 3 = 63$.
2	$48 \div 6 \underline{\hspace{1cm}} 5 + 3$	EQUAL	$48 \div 6 = 8$ and $5 + 3 = 8$.
3	$72 - 19 \underline{\hspace{1cm}} 8 \times 7$	NOT EQUAL	$72 - 19 = 53$ and $8 \times 7 = 56$.
4	$45 + 18 \underline{\hspace{1cm}} 9 \times 7$	EQUAL	$45 + 18 = 63$ and $9 \times 7 = 63$.
5	$64 \div 8 \underline{\hspace{1cm}} 3 \times 3$	NOT EQUAL	$64 \div 8 = 8$ and $3 \times 3 = 9$.
6	$90 - 27 \underline{\hspace{1cm}} 7 \times 8$	NOT EQUAL	$90 - 27 = 63$ and $7 \times 8 = 56$.
7	$6 \times 8 \underline{\hspace{1cm}} 50 - 2$	EQUAL	$6 \times 8 = 48$ and $50 - 2 = 48$.
8	$81 \div 9 \underline{\hspace{1cm}} 4 + 5$	EQUAL	$81 \div 9 = 9$ and $4 + 5 = 9$.

PART 2 • PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 • MAKE YOUR OWN (SAMPLE ANSWERS)

- **EQUAL:** $11 \times 4 = 50 - 6$
- **NOT EQUAL:** $63 \div 7 \neq 4 + 4$

Challenge: $(18 \div 3) \times 7 = (60 - 18) \times 1$; $42 = 42$

For Part 2, accept explanations that calculate both sides and state whether the values match. Part 3 and the challenge may have different correct answers if the symbols and values are correct.