

Same or Different

Compare both sides of each math statement.

4.CE.2 "The student will estimate, represent, solve, and justify solutions to single-step and multistep problems, including those in context, using multiplication with whole numbers, and single-step problems, including those in context..."

NAME _____

DATE _____

SAME VALUE

Equal expressions have the same value. Use the = symbol when both sides match.

$$13 + 4 = 21 - 4$$

DIFFERENT VALUE

Unequal expressions have different values. Use the $\neq$ symbol when the sides do not match.

$$81 \div 3 \neq 30$$

1 SORT _____ 8 items

Circle EQUAL or UNEQUAL for each item, then pick two items and explain how you found the value on each side.

1. 7×8 ____ 56

EQUAL

UNEQUAL

2. $63 \div 9$ ____ 6

EQUAL

UNEQUAL

3. $45 - 17$ ____ 4×7

EQUAL

UNEQUAL

4. 12×5 ____ 58

EQUAL

UNEQUAL

5. $72 \div 8$ ____ 3×3

EQUAL

UNEQUAL

6. $34 + 29$ ____ 9×7

EQUAL

UNEQUAL

7. 11×6 ____ 65

EQUAL

UNEQUAL

8. $96 \div 12$ ____ 2×4

EQUAL

UNEQUAL

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 statement and one new UNEQUAL statement.

EQUAL _____

UNEQUAL _____

CHALLENGE

Write an equal equation that uses multiplication and division on the left side and addition and subtraction on the right side.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	$7 \times 8 \underline{\hspace{1cm}} 56$	EQUAL	$7 \times 8 = 56$.
2	$63 \div 9 \underline{\hspace{1cm}} 6$	UNEQUAL	$63 \div 9 = 7$, not 6.
3	$45 - 17 \underline{\hspace{1cm}} 4 \times 7$	EQUAL	$45 - 17 = 28$ and $4 \times 7 = 28$.
4	$12 \times 5 \underline{\hspace{1cm}} 58$	UNEQUAL	$12 \times 5 = 60$, not 58.
5	$72 \div 8 \underline{\hspace{1cm}} 3 \times 3$	EQUAL	$72 \div 8 = 9$ and $3 \times 3 = 9$.
6	$34 + 29 \underline{\hspace{1cm}} 9 \times 7$	EQUAL	$34 + 29 = 63$ and $9 \times 7 = 63$.
7	$11 \times 6 \underline{\hspace{1cm}} 65$	UNEQUAL	$11 \times 6 = 66$, not 65.
8	$96 \div 12 \underline{\hspace{1cm}} 2 \times 4$	EQUAL	$96 \div 12 = 8$ and $2 \times 4 = 8$.

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:** $14 + 16 = 5 \times 6$
- **UNEQUAL:** $88 \div 4 \neq 20$

Challenge: $9 \times 8 \div 2 = 40 - 4$

For Part 2, accept explanations that correctly find and compare both values. In the challenge sample, the left side is 36 and the right side is 36.