

Equal or Not?

Compare both sides before you choose a symbol.

GRADE 2 • 2.CE.1.j

2.CE.1.j "Represent and justify the relationship between values and expressions as equal or not equal using appropriate models and/or symbols (e.g., $9 + 24 = 10 + 23$; $45 - 9 = 46 - 10$; $15 + 16 \neq 31 + 15$)."

NAME _____

DATE _____

MATCH THE VALUES

Find the value on each side of the comparison. Use $=$ when both sides have the same value. Use $\neq$ when the values are different.

WORKED EXAMPLE

Ava has 7 red beads and 8 blue beads. Ben has 6 red beads and 9 blue beads. Is $7 + 8$ equal to $6 + 9$?

1. Find the first total: $7 + 8 = 15$.
2. Find the second total: $6 + 9 = 15$.
3. Both totals are 15, so use $=$.

Answer: $7 + 8 = 6 + 9$

PRACTICE 5 problems

- 1** Mia has 12 stickers. Leo has 10 stickers and 2 more stickers. Write $=$ or $\neq$: 12 ___ $10 + 2$

ANSWER _____

- 2** One toy train has 14 cars. Another toy train has 11 cars and 4 cars. Write $=$ or $\neq$: 14 ___ $11 + 4$

ANSWER _____

- 3** A puppy sees 13 balls. A kitten sees 5 balls and 5 balls. Write $=$ or $\neq$: 13 ___ $5 + 5$

ANSWER _____

- 4** Noah has 10 crackers and 3 crackers. Priya has 12 crackers. Write $=$ or $\neq$: $10 + 3$ ___ 12

ANSWER _____

- 5** One shelf holds 16 books. Another shelf holds 11 books and 5 books. Write $=$ or $\neq$: 16 ___ $11 + 5$

ANSWER _____

APPLY IT Show your work

- 1** At an arcade, Jada wins 12 tickets. Omar wins 10 tickets and then 2 more tickets. Do they have equal numbers of tickets? Write an equation with = or $\neq$.

WORK SPACE

ANSWER _____

- 2** One fish tank has 14 fish. Another fish tank has 12 fish and 3 fish. Do the tanks have equal numbers of fish? Write an equation with = or $\neq$.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

At the library, one cart has 13 books and 4 books. Another cart has 12 books and 5 books. Write = or $\neq$, then explain how you know: $13 + 4$ ___ $12 + 5$

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Mia has 12 stickers. Leo has 10 stickers and 2 more stickers. Write = or $\neq$: $12 \underline{\hspace{1cm}} 10 + 2$	$12 = 10 + 2$
2	One toy train has 14 cars. Another toy train has 11 cars and 4 cars. Write = or $\neq$: $14 \underline{\hspace{1cm}} 11 + 4$	$14 \neq 11 + 4$
3	A puppy sees 13 balls. A kitten sees 5 balls and 5 balls. Write = or $\neq$: $13 \underline{\hspace{1cm}} 5 + 5$	$13 \neq 5 + 5$
4	Noah has 10 crackers and 3 crackers. Priya has 12 crackers. Write = or $\neq$: $10 + 3 \underline{\hspace{1cm}} 12$	$10 + 3 \neq 12$
5	One shelf holds 16 books. Another shelf holds 11 books and 5 books. Write = or $\neq$: $16 \underline{\hspace{1cm}} 11 + 5$	$16 = 11 + 5$

PART 2 • APPLY IT

1. **$12 = 10 + 2$** Omar has $10 + 2$, which is 12 tickets. The amounts are equal.
2. **$14 \neq 12 + 3$** The second tank has $12 + 3$, which is 15 fish. Fourteen and 15 are not equal.

CHALLENGE

$13 + 4 = 12 + 5$ because both sides equal 17.

Accept = or $\neq$ written in the blank, or a complete comparison equation. For the challenge, accept an explanation that both expressions have a value of 17.