LESSON MAKER PRO

Number Switch

Add, subtract, and use one to check the other.

GRADE 2 · 2.NOS.C.8.b

2.NOS.C.8.b "Use properties of operations, and the inverse relationship between addition and subtraction to add and subtract."

NAME _____ DATE _____

THE BIG IDEA

You can switch the order of numbers you add. Addition and subtraction undo each other, so you can use one to check the other.

WORKED EXAMPLE

There are 6 red marbles and 8 blue marbles. How many marbles are there in all?

1. Switch the order: 8 + 6.
2. Add: 8 + 6 = 14.
3. Check: 14 - 6 = 8.

Answer: 14 marbles

PRACTICE 5 problems

1 A jar has 2 green buttons and 17 yellow buttons. Switch the order to add. How many buttons are there?

ANSWER _____

2 You have 9 star stickers and 4 heart stickers. How many stickers do you have?

ANSWER _____

3 There are 15 pencils in a cup. You take out 3. How many pencils are left?

ANSWER _____

4 A shelf has 11 books. How many more books does it need to have 18? Write the missing number: 11 + ___ = 18.

ANSWER _____

5 There are 19 cookies. Some are eaten, and 10 are left. Write the missing number: 19 - ___ = 10.

ANSWER _____

APPLY IT Show your work

1 At recess, 12 kids play tag. Then 5 more kids join. How many kids are playing tag?

WORK SPACE

ANSWER _____

2 A class has 20 paintbrushes. The kids use 7 of them. How many paintbrushes are not being used?

WORK SPACE

ANSWER _____

CHALLENGE One step up

There are 18 toy animals. 11 are cats, and the rest are dogs. How many are dogs? Explain why 18 - 11 and 11 + ___ = 18 give the same answer.

WORK SPACE AND ANSWER

ANSWER KEY

Number Switch

GRADE 2 · 2.NOS.C.8.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A jar has 2 green buttons and 17 yellow buttons. Switch the order to add. How many buttons are there?	**19 buttons**
2	You have 9 star stickers and 4 heart stickers. How many stickers do you have?	**13 stickers**
3	There are 15 pencils in a cup. You take out 3. How many pencils are left?	**12 pencils**
4	A shelf has 11 books. How many more books does it need to have 18? Write the missing number: 11 + ___ = 18.	**7**
5	There are 19 cookies. Some are eaten, and 10 are left. Write the missing number: 19 - ___ = 10.	**9**

PART 2 · APPLY IT

1. **17 kids** Add 12 + 5 = 17.
2. **13 paintbrushes** Subtract 20 - 7 = 13.

CHALLENGE

7 dogs. Addition and subtraction undo each other: 18 - 11 = 7 and 11 + 7 = 18.

Accept a number without a unit for the practice blanks. For the challenge, accept any clear explanation that addition and subtraction undo each other.