LESSON MAKER PRO

Equation Detectives

Check each number sentence for the truth.

GRADE 2 · MA.2.AR.2.1

MA.2.AR.2.1 "Determine and explain whether equations involving addition and subtraction are true or false."

NAME _____ DATE _____

CHECK BOTH SIDES

An equation is true when both sides have the same value. Find each side, then compare the values to decide true or false.

WORKED EXAMPLE

A game card says: 11 + 6 = 17. Is the card true or false?

1. Add 11 + 6.
2. 11 + 6 = 17.
3. Both sides show 17, so the equation is true.

Answer: True

PRACTICE 5 problems

1 A toy bin label says: 4 + 3 = 5. Is the label true or false?

ANSWER _____

2 A puppy has 9 treats and eats 4 treats. A note says: 9 - 4 = 5. Is the note true or false?

ANSWER _____

3 A crayon box label says: 2 + 3 = 5. Is the label true or false?

ANSWER _____

4 A game scorecard says: 10 - 3 = 8. Is the scorecard true or false?

ANSWER _____

5 A shell collection card says: 12 - 4 = 9. Is the card true or false?

ANSWER _____

APPLY IT Show your work

1 Mia has 14 stickers. She gives 5 stickers to a friend. Her notebook says: 14 - 5 = 9. Is her notebook true or false?

WORK SPACE

ANSWER _____

2 Leo has 4 dinosaur cards. He gets 5 more cards. A card says: 4 + 5 = 10. Is the card true or false?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A board game card says: 16 - 9 = 3 + 4. Is the card true or false? Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Equation Detectives

GRADE 2 · MA.2.AR.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy bin label says: 4 + 3 = 5. Is the label true or false?	**False**
2	A puppy has 9 treats and eats 4 treats. A note says: 9 - 4 = 5. Is the note true or false?	**True**
3	A crayon box label says: 2 + 3 = 5. Is the label true or false?	**True**
4	A game scorecard says: 10 - 3 = 8. Is the scorecard true or false?	**False**
5	A shell collection card says: 12 - 4 = 9. Is the card true or false?	**False**

PART 2 · APPLY IT

1. **True** Subtract 5 from 14 to get 9. Both sides are 9, so the equation is true.
2. **False** Add 4 and 5 to get 9. The sides are not the same, so the equation is false.

CHALLENGE

True. 16 - 9 = 7, and 3 + 4 = 7.

Accept “true” or “false” answers. For the challenge, accept an explanation that shows both sides equal 7.