LESSON MAKER PRO

Missing Number Mysteries

Use addition and subtraction to find what is missing.

GRADE 3 · 3.NOS.D.7.b

3.NOS.D.7.b "Use properties of operations, and/or the inverse relationship between addition and subtraction."

NAME _____ DATE _____

OPERATIONS UNDO EACH OTHER

Addition and subtraction undo each other. To solve a subtraction problem, think of the addition fact that puts the parts back together. You can use subtraction to find a missing part in an addition fact, too.

WORKED EXAMPLE

Find the missing number: 52 - 18 = ____

1. Think: 18 + ___ = 52.
2. 18 + 30 = 48.
3. 48 + 4 = 52.
4. 30 + 4 = 34.

Answer: 34

PRACTICE 6 problems

1 Find the missing number: 46 - 17 = ___

ANSWER _____

2 Find the missing number: 23 + ___ = 61

ANSWER _____

3 Find the missing number: 84 - ___ = 57

ANSWER _____

4 Find the missing number: ___ + 26 = 73

ANSWER _____

5 Find the missing number: 95 - 46 = ___

ANSWER _____

6 Find the missing number: 67 - ___ = 28

ANSWER _____

APPLY IT Show your work

1 You have 86 arcade tickets. After buying a prize, you have 41 tickets left. How many tickets did the prize cost?

WORK SPACE

ANSWER _____

2 A sticker album has 24 stickers. You add some stickers, and now it has 79. How many stickers did you add?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Nia says 92 - 37 = 55. Jo says 92 - 55 = 37. Are both right? Write one addition fact to explain.

WORK SPACE AND ANSWER

ANSWER KEY

Missing Number Mysteries

GRADE 3 · 3.NOS.D.7.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the missing number: 46 - 17 = ___	**29**
2	Find the missing number: 23 + ___ = 61	**38**
3	Find the missing number: 84 - ___ = 57	**27**
4	Find the missing number: ___ + 26 = 73	**47**
5	Find the missing number: 95 - 46 = ___	**49**
6	Find the missing number: 67 - ___ = 28	**39**

PART 2 · APPLY IT

1. **45 tickets** Subtract 41 from 86 to get 45. Check: 41 + 45 = 86.
2. **55 stickers** Subtract 24 from 79 to get 55. Check: 24 + 55 = 79.

CHALLENGE

Yes. 37 + 55 = 92, so both subtraction facts are correct.

For the challenge, accept 55 + 37 = 92 as the addition fact. Accept a clear explanation that both subtraction facts use the same three numbers.