

Adding and Subtracting Integers Worksheet

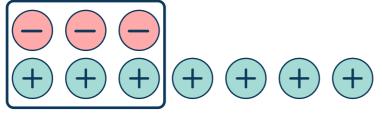
Number and Quantity

Grades 6 to 8

Skill Questions

Name:
Date:

1



Answer

Write an equation to represent the model.

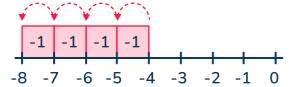
2



Answer

Write an equation to represent the model.

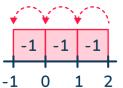
3



Answer

Write two equations to represent the model.

4



Answer

Write two equations to represent the model.

5

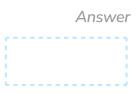
Show -5 + (-6) as a model.

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6 Write –11 – 5 as an addition expression.

Answer

7 Write 9 + (–5) as a subtraction expression.



8 Solve -4 + (-13) = ?



9 Solve -5 - (-8) = ?



10 Solve 3 - (-3) = ?

Answer

Applied Questions

Fill in the missing integer. Then explain how you solved. 11

a. $_{---}$ – (–5) = 2

Answer

b.
$$8 + _{---} = -4$$

Answer

12 -8



Three students wrote expressions to represent the model.

- Jesse wrote 1 8
- Zeke wrote 1 + (-8)
- Jay wrote 1 (–8)

Which expressions are correct? Explain.

Answer

The temperature was –8°F. It fell 5 degrees by noon. Write an equation to 13 represent the temperature at noon.

Answer

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14	Hudson was at an elevation of 170 m . After hiking an hour, Hudson's elevation changed by $-80m$. What is Hudson's current elevation?
	Answer
15	A whale was at $-23f^t$ above sea level. It swam straight up and jumped out of the water, changing its sea level position by $28f^t$. Write an equation to represent the whale's position when it jumped out of the water.
	Answer

Answers

Question number	Question	Answers	Standard
1	Write an equation to represent the model.	-3 + 7 = 4	7.NS.A.1
2	Write an equation to represent the model.	-5 - (-4) = -1	7.NS.A.1
3	-1 -1 -1 -1 -1 -1 -1 -1 -8 -7 -6 -5 -4 -3 -2 -1 0 Write two equations to represent the model.	-3 + (-4) = -7 -3 - 4 = -7	7.NS.A.1
4	Write two equations to represent the model.	2 + (-3) = -1 2 - 3 = -1	7.NS.A.1
5	Show –5 + (–6) as a model.	OR -6 -11 -10 -9 -8 -7 -6 -5	7.NS.A.1
6	Write –11 – 5 as an addition expression.	-11 + (-5)	7.NS.A.1

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Question number	Question	Answers	Standard
7	Write 9 + (–5) as a subtraction expression.	9 – 5	7.NS.A.1
8	Solve -4 + (-13) = ?	-17	7.NS.A.1
9	Solve -5 - (-8) = ?	3	7.NS.A.1
10	Solve 3 – (–3) = ?	6	7.NS.A.1
11	Fill in the missing integer. Then explain how you solved. a (-5) = 2 b. 8 + = -4	a. Subtracting –5 is equal to adding 5. Since the answer is 2 and 5 was added, the missing number is –3. b. 8 is positive and the sum is negative. That means the number added was negative and had a magnitude that was 4 larger than 8. This means the missing number is –12.	7.NS.A.1
12	Three students wrote expressions to represent the model. Jesse wrote 1 – 8 Zeke wrote 1 + (-8) Jay wrote 1 – (-8) Which expressions are correct? Explain.	Jesse's expression is correct because the model starts at 1 and subtracts 8. Zeke's is also correct because adding –8 is equal to subtracting 8.	7.NS.A.1

Adding and Subtracting Integers Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
13	The temperature was –8°F. It fell 5 degrees by noon. Write an equation to represent the temperature at noon.	-8 - 5 = -13 OR $-8 + (-5) = -13$	7.NS.A.3
14	Hudson was at an elevation of $170\ m$. After hiking an hour, Hudson's elevation changed by $-80\ m$. What is Hudson's current elevation?	90 <i>m</i>	7.NS.A.3
15	A whale was at $-23 ft$ above sea level. It swam straight up and jumped out of the water, changing its sea level position by $28 ft$. Write an equation to represent the whale's position when it jumped out of the water.	-23 + 28 = 5	7.NS.A.3

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