Name _____

Adding Integers

R 8-5

You can use the rules below to add integers.

Adding two integers with the same sign

Find $-7 + (-3)$.

Step 1: Find the sum of the absolute values of the two numbers.

$|-7| = 7$

$|-3| = 3$

$7 + 3 = 10$

Step 2: Give the sum the same sign as the addends.

Because -7 and -3 both have negative signs, the sum receives a negative sign.

So, $-7 + (-3) = -10$.

Adding two integers with different signs

Find $2 + (-6)$.

Step 1: Find the difference of the absolute values of the two numbers.

$|-6| - |2| = 4$

Step 2: Give the difference the same sign as the addend with the greater absolute value.

Because -6 has the greater absolute value, the difference receives a negative sign.

So, $2 + (-6) = -4$.

Find each sum.

1. $3 + 10 =$ _____
2. $4 + (-6) =$ _____
3. $(-3) + (-5) =$ _____
4. $9 + (-2) + 1 =$ _____
5. $9 + (-8) =$ _____
6. $(-6) + (-5) =$ _____
7. $13 + (-22) =$ _____
8. $30 + (-16) + 5 =$ _____
9. **Algebra** The rule is Add -8. The input is 9. What is the output? _____

Name _____

Adding Integers

P 8-5

1. Draw a number line to find 3 + (−4). _____

Draw a number line or use the rules for adding integers to find each sum.

2. 4 + (−12) = _____

3. −12 + (−14) = _____

4. 10 + (−1) = _____

5. −2 + (−1) = _____

6. −50 + (−1) = _____

7. 8 + (−4) = _____

8. −9 + 7 = _____

9. −3 + (−6) = _____

Algebra Use the rule to complete each table.

10. **Rule: Add −6**

Input	Output
5	
3	
−1	

11. **Rule: Add 2**

Input	Output
−7	
−4	
0	

Test Prep

12. Which is the sum of −6 + (−9) + (−9)?

A. −24 **B.** −12 **C.** −6 **D.** 24

13. **Writing in Math** Explain how you would solve −4 + 4 + 5.

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