

**WORKSHEET 1.15: ADDING INTEGERS WITH DIFFERENT SIGNS**

Use the following rules to add a positive and negative integer:

1. Find the absolute value of each number.
2. Subtract the smaller absolute value from the larger.
3. Keep the sign of the integer with the greater absolute value.

**EXAMPLES**

$-3 + 15$	$18 + (-25)$
$ -3  = 3$ $ 15  = 15$	$ 18  = 18$ $ -25  = 25$
$15 - 3 = 12$	$25 - 18 = 7$
Because $ 15  >  -3 $ , the sign is positive.	Because $ -25  >  18 $ , the sign is negative.
$-3 + 15 = 12$	$18 + (-25) = -7$

**DIRECTIONS:** Find each sum.

1.  $-12 + 29$

2.  $-1 + 10$

3.  $8 + (-8)$

4.  $-15 + 7$

5.  $5 + (-12)$

6.  $-38 + 14$

7.  $98 + (-36)$

8.  $-26 + 75$

9.  $20 + (-15)$

10.  $-36 + 11$

11.  $22 + (-8)$

12.  $-44 + 32$



**CHALLENGE:** Create two problems that involve adding a positive and a negative integer so that one sum is positive and the other is negative. Include the answers to your problems.

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**DIRECTIONS:** Find each sum.

1.  $-12 + 29$

17

2.  $-1 + 10$

9

3.  $8 + (-8)$

0

4.  $-15 + 7$

-8

5.  $5 + (-12)$

-7

6.  $-38 + 14$

-24

7.  $98 + (-36)$

62

8.  $-26 + 75$

49

9.  $20 + (-15)$

5

10.  $-36 + 11$

-25

11.  $22 + (-8)$

14

12.  $-44 + 32$

-12



**CHALLENGE:** Create two problems that involve adding a positive and a negative integer so that one sum is positive and the other is negative. Include the answers to your problems.

Possible answers.

$-10 + 3 = -7$

$5 + (-4) = 1$