

## Addition and Subtraction of Directed Numbers (2)

Name: \_\_\_\_\_ Class: S. 1 \_\_\_\_\_ ( ) Date: \_\_\_\_\_

Find the meaning and the answer of the following expressions by using the slider at the right hand side of the screen.

Siu-ming is initially at the position "0". He has some balloons  and some

sandbags .

When a balloon  is added (+1), Siu-ming will go up 1 unit.

When a sandbag  is added (-1), Siu-ming will go down 1 unit.

Expression	Meaning
1. $(+5) + (+3)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
2. $(+2) + (-7)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
3. $(-2) - (+8)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
4. $(+5) - (-2)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
5. $(-4) + (+2)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
6. $(-2) + (-7)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.

Expression	Meaning
7. $(-12) - (+7)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.
8. $(+3) - (-5)$ = =	Add _____ balloons / sandbags, and then add / take way _____ balloons / sandbags. Starting at 0. Move up / down for _____ units. Then move up / down for _____ units. The destination is at _____.

Exercise:

9.  $(-2) + (+6) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
10.  $(-4) + (-5) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
11.  $(+1) - (+4) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
12.  $(-6) + (+2) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
13.  $(+3) + (-7) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
14.  $(-4) - (+1) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
15.  $(-2) - (-8) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
16.  $(-3) + (+10) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
17.  $(-11) + (+5) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
18.  $(+14) - (+4) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
19.  $(-9) + (-2) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
20.  $(-15) - (-10) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
21.  $(-8) - (-12) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
22.  $(+100) - (-20) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
23.  $(-4) + (+2) - (+6) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
24.  $(+1) - (+3) - (+5) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
25.  $(-9) + (-2) + (+3) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
26.  $(+5) - (+1) + (+4) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
27.  $(-2) + (+6) - (+4) =$  \_\_\_\_\_  $=$  \_\_\_\_\_
28.  $(+20) + (-16) - (-3) - (+8) =$  \_\_\_\_\_  $=$  \_\_\_\_\_