

# Subtracting Integers

 Assignment

Find the difference of each expression below.

1.  $-50 - (-24) =$

2.  $75 - (-40) =$

3.  $-121 - 200 =$

4.  $20 - 56 =$

5.  $-121 - 65 =$

6.  $-20 - (-153) =$

Show the subtraction on the number line. Then write the difference.

7.  $2 - 4 =$



8.  $(-2) - (-4) =$



# Subtracting Integers Assignment

9.  $5 - (-1) =$

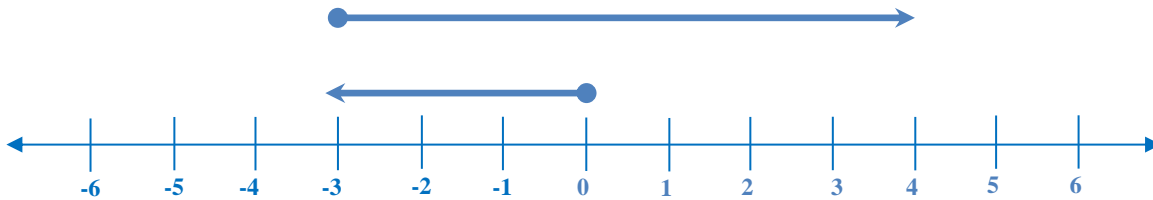


10.  $-2 - 2 =$

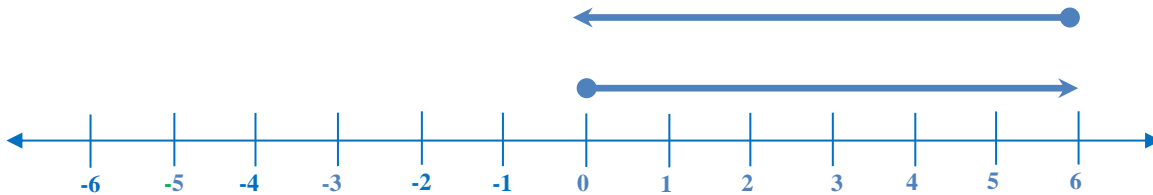


Write the expression that each number line demonstrates. Then write the difference.

11.

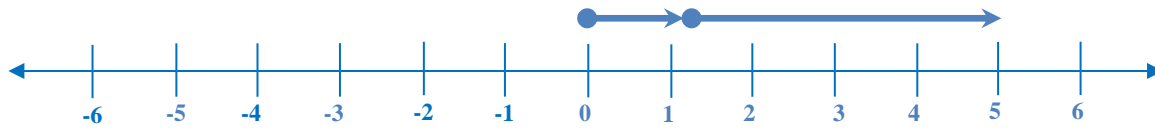


12.

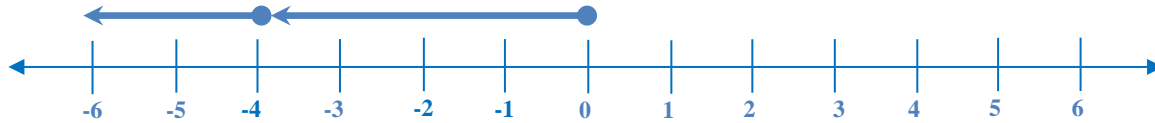


# Subtracting Integers Assignment

13.



14.



Solve each expression below.

15.  $(-32) - (-20) - 5 =$

16.  $89 - (-10) - (-18) =$

17.  $93 - (-52) - [-14 + 12]^2 =$

18.  $(-23 - 34) - [20 + (-11)] =$

# Subtracting Integers Assignment

19.  $-19 + 55 - [60 - 66]^2 =$

20.  $10 - (-50) - (-30) + (-80) - 60 =$

## WORD PROBLEMS

21. When Melanie subtracted  $-20 - (-20)$ , she got a difference of  $-40$ . Is her answer correct? If not, what mistake did she make?
22. Harry owes his brother 3 dollar. He borrows 7 more dollars from his brother. He pays his brother back 5 dollars. How much does Harry still owe his brother?
23. The temperature on Saturday was  $-5$  °C. By Sunday the temperature rose to  $-1$  °C. Find the change in temperature.

# Subtracting Integers Assignment

## ANSWERS

Find the difference of each expression below.

1.  $-50 - (-24) =$

$$\begin{aligned} & -50 - (-24) = \\ & = -50 + 24 = \\ & = -26 \end{aligned}$$

2.  $75 - (-40) =$

$$\begin{aligned} & 75 - (-40) = \\ & = 75 + 40 = \\ & = 115 \end{aligned}$$

3.  $-121 - 200 =$

$$\begin{aligned} & -121 - 200 = \\ & = -121 + (-200) = \\ & = -321 \end{aligned}$$

4.  $20 - 56 =$

$$\begin{aligned} & 20 - 56 = \\ & = 20 + (-56) = \\ & = -36 \end{aligned}$$

5.  $-121 - 65 =$

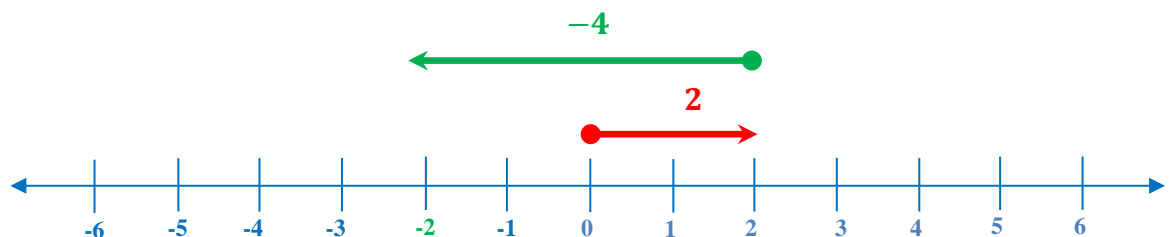
$$\begin{aligned} & -121 - 65 = \\ & = -121 + (-65) = \\ & = -186 \end{aligned}$$

6.  $-20 - (-153) =$

$$\begin{aligned} & -20 - (-153) = \\ & = -20 + 153 = \\ & = 133 \end{aligned}$$

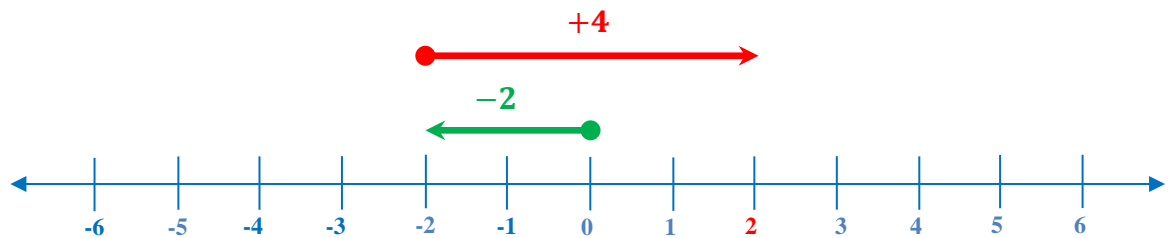
Show the subtraction on the number line. Then write the difference.

7.  $2 - 4 =$



$$\begin{aligned} & 2 - 4 = \\ & = 2 + (-4) = \\ & = -2 \end{aligned}$$

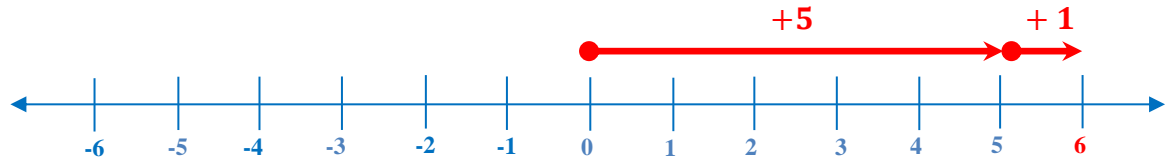
8.  $(-2) - (-4) =$



$$\begin{aligned} & (-2) - (-4) = \\ & = (-2) + 4 = \\ & = 2 \end{aligned}$$

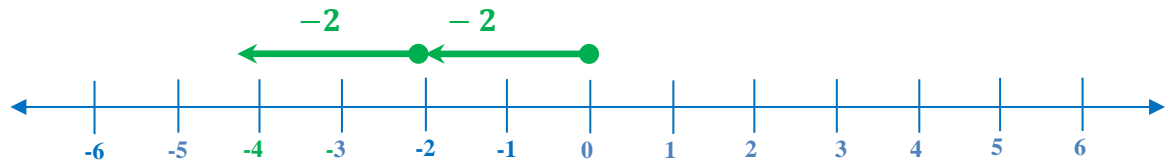
# Subtracting Integers Assignment

9.  $5 - (-1) =$



$$\begin{aligned} 5 - (-1) &= \\ &= 5 + 1 = \\ &= 6 \end{aligned}$$

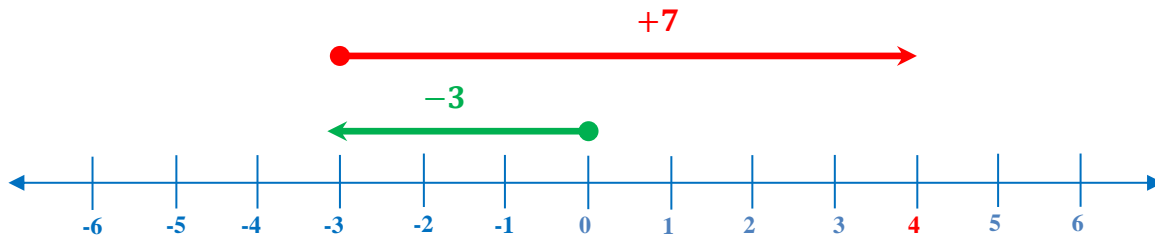
10.  $-2 - 2 =$



$$\begin{aligned} -2 - 2 &= \\ &= -2 + (-2) = \\ &= -4 \end{aligned}$$

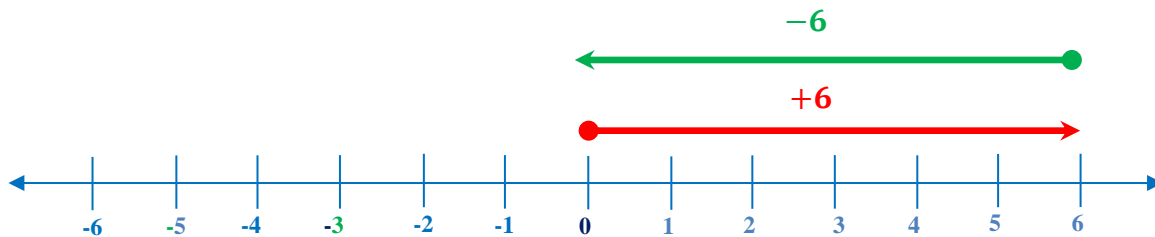
Write the expression that each number line demonstrates. Then write the difference.

11.



$$\begin{aligned} -3 - (-7) &= \\ &= -3 + 7 = \\ &= 4 \end{aligned}$$

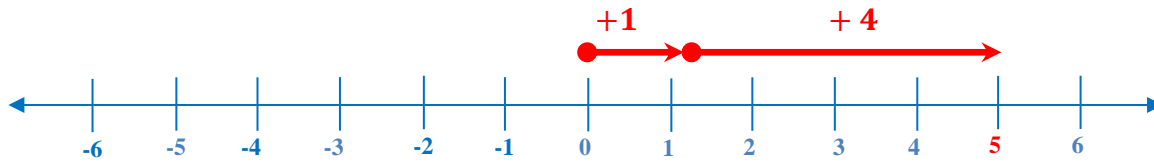
12.



$$\begin{aligned} 6 - 6 &= \\ &= 6 + (-6) = \\ &= 0 \end{aligned}$$

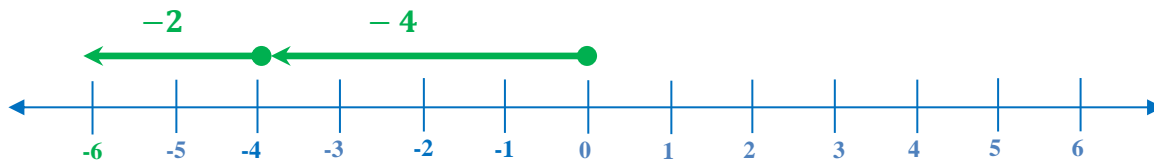
**Subtracting Integers** Assignment

13.



$$\begin{aligned} 1 - (-4) &= \\ = 1 + 4 &= \\ = 5 & \end{aligned}$$

14.



$$\begin{aligned} -4 - 2 &= \\ = -4 + (-2) &= \\ = -6 & \end{aligned}$$

Solve each expression below.

15.  $(-32) - (-20) - 5 =$

$$\begin{aligned} (-32) - (-20) - 5 &= \\ = (-32) + 20 - 5 &= \\ = (-12) - 5 &= \\ = (-12) + (-5) &= \\ = -17 & \end{aligned}$$

16.  $89 - (-10) - (-18) =$

$$\begin{aligned} 89 - (-10) - (-18) &= \\ = 89 + 10 - (-18) &= \\ = 99 - (-18) &= \\ = 99 + 18 &= \\ = 117 & \end{aligned}$$

17.  $93 - (-52) - [-14 + 12]^2 =$

$$\begin{aligned} 93 - (-52) - [-14 + 12]^2 &= \\ = 93 - (-52) - [-2]^2 &= \\ = 93 + 52 - 4 &= \\ = 145 - 4 &= \\ = 145 + (-4) &= \\ = 141 & \end{aligned}$$

18.  $(-23 - 34) - [20 + (-11)] =$

$$\begin{aligned} (-23 - 34) - [20 + (-11)] &= \\ = [(-23 + (-34))] - 9 &= \\ = [-57] - 9 &= \\ = [-57] + [-9] &= \\ = -66 & \end{aligned}$$

# Subtracting Integers Assignment

19.  $-19 + 55 - [60 - 66]^2 =$

$$\begin{aligned}
 & -19 + 55 - [60 - 66]^2 = \\
 & = -19 + 55 - [60 + (-66)]^2 = \\
 & = -19 + 55 - [-6]^2 \\
 & = -19 + 55 - 36 \\
 & = 36 - 36 = \\
 & = 36 + (-36) = \\
 & = 0
 \end{aligned}$$

20.  $10 - (-50) - (-30) + (-80) - 60 =$

$$\begin{aligned}
 & 10 - (-50) - (-30) + (-80) - 60 = \\
 & = 10 + 50 - (-30) + (-80) - 60 = \\
 & = 60 - (-30) + (-80) - 60 = \\
 & = 60 + 30 + (-80) - 60 = \\
 & = 90 + (-80) - 60 = \\
 & = 10 - 60 = \\
 & = 10 + (-60) = \\
 & = -50
 \end{aligned}$$

## WORD PROBLEMS

21. When Melanie subtracted  $-20 - (-20)$ , she got a difference of  $-40$ . Is her answer correct? If not, what mistake did she make?

$$\begin{aligned}
 & -20 - (-20) = \\
 & = -20 + 20 = \\
 & = 0
 \end{aligned}$$

No. The correct answer is **0**.

Iris may have added  $-20$  and  $-20$  instead of adding the opposite of  $-20$ .

22. Harry owes his brother 3 dollar. He borrows 7 more dollars from his brother. He pays his brother back 5 dollars. How much does Harry still owe his brother?

$$\begin{aligned}
 & -3 + (-7) + 5 = \\
 & = -10 + 5 = \\
 & = -5
 \end{aligned}$$

Harry still owes his brother 5\$.

23. The temperature on Saturday was  $-5$  °C. By Sunday the temperature rose to  $-1$  °C. Find the change in temperature.

$$\begin{aligned}
 & -1 - (-5) = \\
 & = -1 + 5 = \\
 & = 4
 \end{aligned}$$

The temperature increased by **4** °C.