

Objective 12
Subtract integers

Vocab:

PROBLEM

$$-76 - (-50) =$$

STEP 1

Rewrite the problem to show that subtracting -50 is the same as adding its opposite.

$$\begin{aligned} -76 - (-50) &= -76 + (+50) \\ &= -76 + 50 \end{aligned}$$

STEP 2

Find the absolute values of the integers.

$$\begin{aligned} |-76| &= 76 \\ |50| &= 50 \end{aligned}$$

STEP 3

Compare the absolute values of both numbers.

$$|-76| > |50|$$

STEP 4

Subtract the smaller absolute value from the greater absolute value.

$$76 - 50 = 26$$

The sign of the number with the greater absolute value will be the sign of the answer. The answer is a negative number.

ANSWER

$$-76 - (-50) = -26$$

Independent Practice:

$$19 - (-81) = \quad [A] \ 100 \quad [B] \ 62 \quad [C] \ -100 \quad [D] \ -62$$

$$12 - (-55) =$$

$$-34 - (-59) = \quad [A] \ 93 \quad [B] \ -25 \quad [C] \ 25 \quad [D] \ -93$$

$$-17 - (-8) =$$

Guided Practice:

Add the following integers:

$$-8 - 12 =$$

$$42 - (-30) =$$

$$-35 - (-14) =$$

$$-15 - 62 =$$

Additional Help:

<http://www.mathgoodies.com/lessons/vol5/subtraction.html>

http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_subtraction.htm

<https://www.ixl.com/math/grade-6/subtract-integers>

