

## Adding and Subtracting Integers HW Answers

$1) 1 - 5 = -4$ <p style="font-size: small; color: red;">take this sign → <math> 1-5  =  11 </math> <math>5-1</math> <math>4</math></p>	$2) 4 - (-2) = 6$ <p style="font-size: small; color: red;">Keep common sign → <math>4+2</math> <math> 4 + 2 </math> <math>4+2</math></p>	$3) -3 - 2 = -5$ <p style="font-size: small; color: red;">Keep common sign → <math>-3-2</math> <math> 3 + 2 </math> <math>3+2</math> <math>5</math></p>
$4) -5 + 8 = 3$ <p style="font-size: small; color: red;">Keep this sign → <math> 8 - 5 </math> <math>8-5</math> <math>3</math></p>	$5) -3 + (-3) = -6$ <p style="font-size: small; color: red;">Keep common sign → <math>-3-3</math> <math> 3 + 3 </math> <math>3+3</math> <math>6</math></p>	$6) 2 + (-9) = -7$ <p style="font-size: small; color: red;">Keep this sign → <math> 9 - 2 </math> <math>9-2</math> <math>7</math></p>
$7) 7 + (-10) = -3$ <p style="font-size: small; color: red;">Keep this sign → <math> 10 - 7 </math> <math>10-7</math> <math>3</math></p>	$8) -7 + 13 = 6$ <p style="font-size: small; color: red;">Keep this sign → <math> 13 - 7 </math> <math>13-7</math> <math>6</math></p>	$9) -3 + (-1) + (-2) = -6$ <p style="font-size: small; color: red;">Keep common sign → <math>-3-1-2</math> <math> 3 + 1 + 2 </math> <math>3+1+2</math> <math>6</math></p>

10) A submarine is cruising at 40 m below sea level. The submarine ascends 18 m. What is the submarine's new location?

$$-40 + 18$$

Keep this sign →  $|40|-|18|$   
 $40-18 \Rightarrow 22$

The submarine's new location is 22 m below sea level.

Challenge: During a possession in a football game, the Vikings gained 22 yards, lost 15 yards, gained 3 yards, gained 20 yards and lost 5 yards. At the end of the possession, how many yards had they lost or gained?

$$22 - 15 + 3 + 20 - 5$$

$$7 + 3 + 20 - 5$$

$$10 + 20 - 5$$

$$30 - 5$$

$$25$$

The Vikings gained 25 yards during the possession.