Adding Integers - Word Problems

Essential Skills: Identity the questions you need to answer and the problems you need to solve

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1.) A football team loses 5 yards on one play and then loses 8 yards on the next play. How many yards did they lose on the two plays?

How do we represent a loss of 5 yards?

$$-5$$

How do we represent a loss of 8 yards?

$$-8$$

$$-5 + -8 = -13 \text{ yards}$$

2.) You park in a garage 3 floors below ground level. Then you get in the elevator and go up 12 floors. What floor do you get off the elevator?

How do you represent 3 floors below ground level?

-3
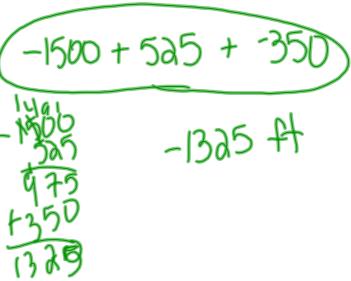
How do you represent going up 12 floors?

12

$-3 + 12 = 9$

you get off on the 9th floor.

3.) In 2002, Tiger Woods won the Masters Tournament. His scores were -2, -3, -6 and -1 for four rounds. What was his final score?

$$-2 + -3 + -6 + -1$$
$$-5 + -6 + -1$$
$$-11 + -1$$
$$-12$$

His final score was -12.

4.) A local bookstore has 30 copies of a bestseller when it opens on Monday morning. On Monday, it sells 6 copies of the book. On Tuesday, it sells 3 copies. On Wednesday, it receives a shipment containing 24 copies of the books and also sells 8 copies. How many books does the store have at the end of Wednesday?

How do you represent selling 6 books? -6

How do you represent selling 3 books? -3

How do you represent receiving 24 books? 24

How do you represent selling 8 books? -8

$$30 + -6 + -3 + 24 + -8$$
$$24 + -3 + 24 + -8$$
$$21 + 24 + -8$$
$$45 + -8$$
$$37 \text{ books}$$

5.) A research team aboard an underwater research vessel descends 1,500 feet beneath the surface of the water. They then rise 525 feet and descend again 350 feet. Where are they currently located?

$$-1500 + 525 + -350$$

$$
\begin{array}{r}
^{14\,9\,1} \\
-1500 \\
525 \\
\hline
975 \\
+350 \\
\hline
1325
\end{array}
$$

$$-1325 \text{ ft}$$

6.) Peter weighs 156 pounds, but he would like to wrestle in a lower weight class. He loses 4 pounds one week, gains back 2 pounds the next, loses 5 pounds the third week and loses 3 pounds the fourth week. How much does Peter weigh now?