Math 7 Unit 1 worksheet: Adding integers

Name _____ Date _____ Period _____

1. Find each sum.

(a) $-9 + 14$ (b) $12 + (-20)$ (c) $-31 + 17$ (d) $45 + (-19)$ (e) $-8 + (-13)$

(f) $0 + (-23)$ (g) $73 + (-110)$ (h) $-204 + 98$ (i) $-15 + 40$ (j) $-125 + 300$

2. In a soccer league, a team's goal difference for one game is the number of goals it scored minus the number scored against it: -1 means it lost by one goal, 2 means it won by two goals, and 0 means a draw. Priya's team had these goal differences in six games: -2, 2, -1, -1, 2, 1.

(a) What is the team's goal difference for the six games together?

(b) Before these six games, the team's goal difference for the season was -3. What is it after them?

3. In football, a gain of yards counts as a positive number and a loss of yards as a negative number. On four plays in a row, a team gains 5 yards, loses 3 yards, gains 6 yards and then loses 4 yards.

(a) Write the four plays as a sum of integers and find the team's net gain in yards.

(b) The team needs a net gain of 10 yards, counted from where the four plays started, for a first down. How many more yards must it gain?

4. Jin and Sofia each worked out $-18 + 7$. Jin wrote -25 and Sofia wrote 11. Explain the mistake each one made, and find the correct sum.

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5. A white counter stands for 1 and a shaded counter for -1.

(a) A pile of 16 counters is worth -4. How many shaded counters and how many white counters are in it?

(b) Explain why no pile of 15 counters can be worth -4.

6. Two integers have different signs. Their sum is -6, and the sum of their absolute values is 20. Find the two integers.

7. In a magic square, the three numbers in every row, in every column and in both diagonals have the same sum. Fill in the four empty squares of this magic square.

0	-7	
	-3	
	1	-6

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