Math 7 Unit 1 quiz 1: Adding integers, Subtracting integers

Name _____ Date _____ Period _____

8 questions, 18 points

1. Find each difference. (2 points)

(a) $-13 - 22$ (b) $-7 - (-30)$ (c) $45 - 61$ (d) $19 - (-19)$

2. Find each sum. (a) $27 + (-86)$ (b) $-38 + 139$ (2 points)

3. Evaluate $-x + y + (-4)$ when $x = -7$ and $y = -6$. (2 points)

4. Let $P = -19 - (-10)$ and $Q = 9 - 17$. Find P and Q. Which is greater, and by how much? (2 points)

5. Jack says that $-12 - (-5) = -17$. (3 points)

(a) Use the meaning of subtraction (add the answer back to the number subtracted) to show that Jack is wrong.

(b) Find the correct difference, and check it the same way.

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6. The number of members in a chess club changes from month to month. In January it went up by 4 members. In February it went down by 12 members, and in April it went down by 3 members. From the start of January to the end of April it went down by 5 members in all. What happened to the number of members in March? (2 points)

7. In a school quiz contest, a team gains points for each right answer and loses points for each wrong one, so its score can fall below zero. After the first round, Ethan's team had −10 points. After the second round, the team's total for both rounds was 30 points. How many points did the team score in the second round alone? (2 points)

8. The integer a is negative and the integer b is positive. Decide whether each statement is always true, sometimes true or never true, and explain. For "sometimes", give one example where it is true and one where it is false. (3 points)

   (a) $a + b$ is negative.

   (b) $a + b$ is greater than a and less than b.

   (c) $|a + b| = |a| + |b|$

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