Order of Operations and Solving Equations Quiz

Name:

Date:

Target: Accurately applies order of operations when evaluating expressions

Evaluate the expressions below. Show all steps. *2 marks each*

1) $(16 - 5) + 20 \div 5$

2) $(10 - 8) \times 13 - 4$

3) $(15 + 17) \div (9 - 5)$

4) $9 \times 2 - 8 \div 4 - 5$

5) Jake and Blair each simplified the expression **(5 + 7 x 6) - 2**. Blair said the answer was 46 while Jake said the answer was 45. Who is correct? How do you know? Show the correct way to complete the problem. *3 marks*

Target: Can write and solve algebraic equations.

Solve the number problems below. Write an equation to help you solve the problem. Remember to include a let statement.

1) a) I am a number. Add 3 to me. Subtract the sum **from** 10. The result is 3. What number am I? *3 marks*

   b) I am a number. Triple me and add the product to 7. The result is 19. What number am I? *3 marks*

   c) Candace has 4 more pencils than George. Write an equation to show George's total. If Candace has 16 pencils, how many pencils does George have? *2 marks*

2) Solve for k. Show all steps. *2 marks each*

   a) $(k \times 5) - 9 = 26$

   b) $\dfrac{k+3}{4} = 3$