

Unit 2 Review

Math 8

Name: _____

Period: _____

For numbers 1-8, solve the equations for the unknown variable.

1. $5(n+2) = 30$

2. $5(q+4) = 3(q+12)$

3. $2a - 6(a-4) = -4$

4. $\frac{2}{3}c - \frac{3}{5} = \frac{7}{10}$

5. $\frac{2}{3}(n-6) = 46$

6. $\frac{r}{15} = 45$

7. $9x - 5 = \frac{1}{4}(16x + 60)$

8. $0.1(5x + 20) - 5 = 0.25(2x + 8)$

9. Part A) Solve the following equation for a:

$$24a - 4 = -4(1 - 6a)$$

Part B) Explain on the lines below how you found your answer.

10. Part A) Solve the following equation for g:

$$2(3g + 2) = \frac{1}{2}(12g + 8)$$

Part B) Explain on the lines below how you found your answer.

11. Write a let statement and an equation and solve. : Susie and her sister have a combined age of 16. Susie is three times as old as her sister. How old is each girl?