Algebra: Equations

Solve the following equations.

1. $2x - 1 = 11$ x = _____	2. $3y - 4 = 2$ y = _____
3. $5a - 3 = 17$ a = _____	4. $6y - 4 = 14$ y = _____
5. $4n - 5 = 15$ n = _____	6. $3x + 2 = 20$ x = _____
7. $5k + 9 = 49$ k = _____	8. $6p + 7 = 70$ p = _____
9. $8x - 3 = 93$ x = _____	10. $12d + 13 = 97$ p = _____
11. $\frac{n}{2} - 1 = 4$ n = _____	12. $\frac{r}{5} - 3 = 1$ r = _____

13. $2(x - 1) = 8$ x = _____	14. $5(y - 3) = 10$ y = _____
15. $2(3a + 1) = 14$ a = _____	16. $4(2p + 3) = 20$ p = _____
17. $5(2n - 3) = 25$ n = _____	18. $8y - 19 = 2y + 4$ y = _____

19. Marko had to buy his softball equipment. The shoes cost $y, the bat cost $50 more than the shoes and the gloves cost $73 more than the shoes.

a. Write a algebraic term for the cost of the bat.

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b. Write an algebraic term for the cost of the gloves.

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c. Write down and simplify the expression for the cost of the shoes, the bat and the gloves.

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d. Marko paid $216 for his equipment. Calculate the cost of the shoes.

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