Translate Into Mathematical Symbols Worksheet Answer Key

Express Yourself

Translate the following statements into mathematical symbols.

1. Forty-six taken away from half of eight.
   $\frac{1}{2}(8) - 46 = -42$

2. Square root of sixteen combined with the difference of x^2 and four times x.
   $\sqrt{16} + x^2 - 4x = (x-2)^2$

3. One-third of eighty-one times l plus the difference of three and five times l.
   $\frac{1}{3}(81(l)) + (3 - 5(l)) = 22l + 3$

4. Quotient of three and five taken away from the reciprocal of two.
   $\frac{3}{\frac{1}{2} - 5} = \frac{3}{-\frac{9}{2}} = -\frac{2}{3}$

5. Nine taken away from the sum of ten percent of forty and half of fourteen times y.
   $\big(10\%(40) + \frac{1}{2}(14y)\big) - 9 = 7y - 5$

6. Half of triple of square root of quotient of thirty six and a squared.
   $\frac{1}{2}(3)\sqrt{\frac{36}{a^2}} = \frac{9}{a}$

7. Absolute value of the difference of 1 and the sum of 2 and u squared.
   $|1 - (2 + u^2)| = 1 + u^2$

8. Square root of nine taken away from the square of three combined with two times five.
   $((3)^2 + 2(5)) - \sqrt{9} = (9 + 10) - 3 = 16$

9. Sum of four consecutive integers starting from n
   $n + (n+1) + (n+2) + (n+3) = 4n + 6$

10. Ratio of five times w quadrupled and two taken away from double the difference of three and seven.
    $\frac{(5)(4w)}{2(3-7) - 2} = \frac{20w}{-10} = -2w$
