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## Solving Equations Worksheets

1) Evaluate the following expressions:

a)  $x + 4x$  for  $x = 2$

b)  $3z + 5$  for  $z = 4$

c)  $32y + 3/13$  for  $y = 1$

2) Find the value of the following expressions:

a)  $\frac{7u+2}{5} + 5$  for  $u = 10$

b)  $\frac{5y+8}{7} + 2$  for  $y = 5$

c)  $\frac{p+23}{4} + \frac{5}{11}$  for  $p = 3$

3) Evaluate the given expressions:

a)  $\frac{21+13x}{32x} + 1$  for  $x = 6$

b)  $\frac{21x+7}{8+3x} + 5$  for  $x = 7$

c)  $\frac{14+13x}{17x+13} + \frac{2}{3}$  for  $x = 2$

4) Evaluate  $(a^2 + b^2 - c^3 + d)(a^2 + b^2 + c + d)$  for  $a = 2$ ,  $b = 1$ ,  $c = 1$  and  $d = 3$

5) Simplify the given expressions  $24x^2 + 11x + 14$  and find its value for  $x = 4$ .

6) Evaluate the given expression  $2p + 7q$  for  $p = 2$ ,  $q = 9$



7) Simplify the expression:

a)  $pqr(pq + p + q) + rq$  for  $p = 2, q = 3, r = 4$   
b)  $a(ac + c + bc) + ab^2c$  for  $a = 3, b = 4, c = 7$

8) Given that  $x = 3$  and  $y = 4$ , find the value of the following expression:  $(x + 2y)^2 + (2x - y)^2 + xy$

9) Find the value of this expression  $\sqrt{p(2p + 3q) - q(3p - 4q)}$  where  $p = 2$  and  $q = 1$ .

10) There are two types of boxes containing balls. Blue box contains 7 balls and the red box contains 9 balls. If there are in total 3 blue boxes and 6 red boxes. Then find the total number of balls?

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	1(a) 8 1(b) 15 1(c) $\frac{419}{13}$
2)	2(a) $\frac{44}{5}$ 2(b) $\frac{47}{7}$ 2(c) $\frac{153}{44}$
3)	3(a) $\frac{291}{192}$ 3(b) $\frac{270}{29}$ 3(c) $\frac{214}{141}$
4)	-1133
5)	256
6)	67
7)	12(a) 276 12(b) 504
8)	133
9)	$\sqrt{12}$
10)	75

## FUN FACT

1. A mathematical equation is an expression containing two mathematical objects connected by an equals sign (=).
2. An algebraic equation is an equation in which both sides are polynomials.
3. A differential equation is a functional equation involving derivatives of the unknown functions

