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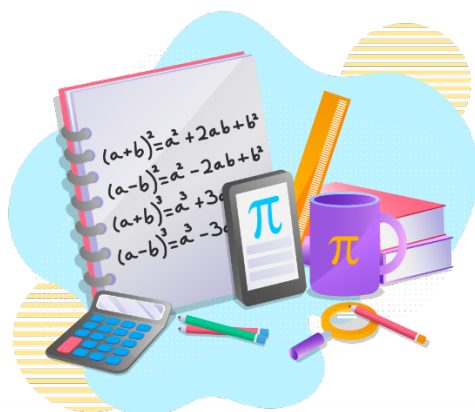
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## Solving Equations Worksheets

- 1) For  $x = 1$ , find the value of the following expression:  
 $7x + 3$
- 2) Find the value of the following expression  $\frac{45x+12}{15} + 25$   
for  $u = 2$
- 3) Evaluate the given expression  $\frac{21+23x}{22x} + 9$  for  $x = 3$
- 4) Evaluate:
  - a)  $pqr$  for  $p = 2, q = 4, r = 6$
  - b)  $abc(a + b + c)$  for  $a = 5, b = 10, c = 15$
- 5) Simplify the given expressions:
  - a)  $4x^2 + 3x + 3$  for  $x = 2$
  - b)  $7m^4 + 3$  for  $m = 3$
  - c)  $2p^3 + 3p^2 + 2$  for  $p = 5$
- 6) Evaluate the given expressions:
  - a)  $2x + 3y$  for  $x = 2, y = 3$
  - b)  $3p + 7q + 4$  for  $p = 1, q = 2$
  - c)  $6s + 7t$  for  $s = 9, t = 7$
- 7) Find the value of the following expressions  $0.7x^2 + 0.9x^2y^2 + 0.8y^2$  for  $x = 2, y = 4$
- 8) Simplify the expression  $p^2q^2r(pq^2 + p^2 + q^2) + r^2q$   
for  $p = 5, q = 5, r = 7$



9) Given that  $x = 3$  and  $y = 4$ , find the value of the following expression  $(3x + 4y)^2 + (8x + 7y)^2 + 24xy$

10) There are two boxes containing coins. Each large box contains 10 balls and each small box contains 5 balls. If there are in total  $x$  small boxes and  $y$  large boxes. Then find the algebraic expression for the total number of balls?



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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	10
2)	$\frac{477}{15}$
3)	$\frac{114}{11}$
4)	4(a) 48 4(b) 22500
5)	5(a) 25 5(b) 570
6)	6(a) 13 6(b) 21 6(c) 103
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

