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Evaluating Algebraic Expressions Worksheets Grade 8

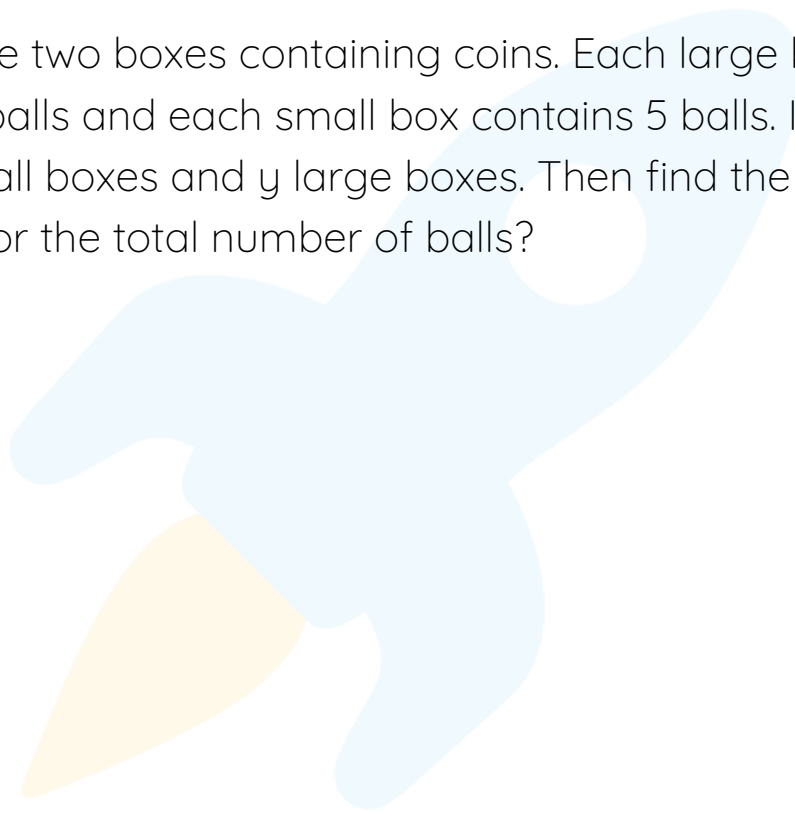
- 1) For $x = 7$, find the value of the following expression: $10x + 5$
- 2) Find the value of the following expression $\frac{2x + 20 + 3x}{3}$ for $x = 2$
- 3) Evaluate the given expression $\frac{24 + 21x}{5x} + 9$ for $x = 1$
- 4) Evaluate $(a^2 + b^2 - c^3 + d)(a^2 + b^2 + c + d)$ for $a = 2$, $b = 1$, $c = 1$ 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) Evaluate the following polynomial $x^2 + 16y^2 + 17y^0 + 3x^3$ for $x = 3$, $y = 1$
- 8) Evaluate the given the expression $\frac{4x^3 + x + 2}{x + 13}$ for $x = 4$
- 9) Simplify the following algebraic expressions $(12y)^2 + (2y)^3 + 2$ for $y = 3$
- 10) Evaluate the following expression $9xy + 12x^2y^4 + 7x^2y^3$ for $x = 4$, $y = 1$
- 11) Find the value of the following expressions $0.7x^2 + 0.9x^2y^2 + 0.8y^2$ for $x = 2$, $y = 4$

12) Simplify the expression $p^2q^2r(pq^2 + p^2 + q^2) + r^2q$ for $p = 5$,
 $q = 5$, $r = 7$

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

14) Find the value of this expression $\sqrt{p(12p + 7q) - q(3p + 4q)}$
where $p = 4$ and $q = 2$

15) 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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"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) -1133
5) 256	6) 67	7) 191	8) $\frac{53}{114}$
9) 1514	10) 340	11) 73.2	12)
13)	14)	15) 190	

FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

