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Evaluating Algebraic Expressions Worksheets Grade 8

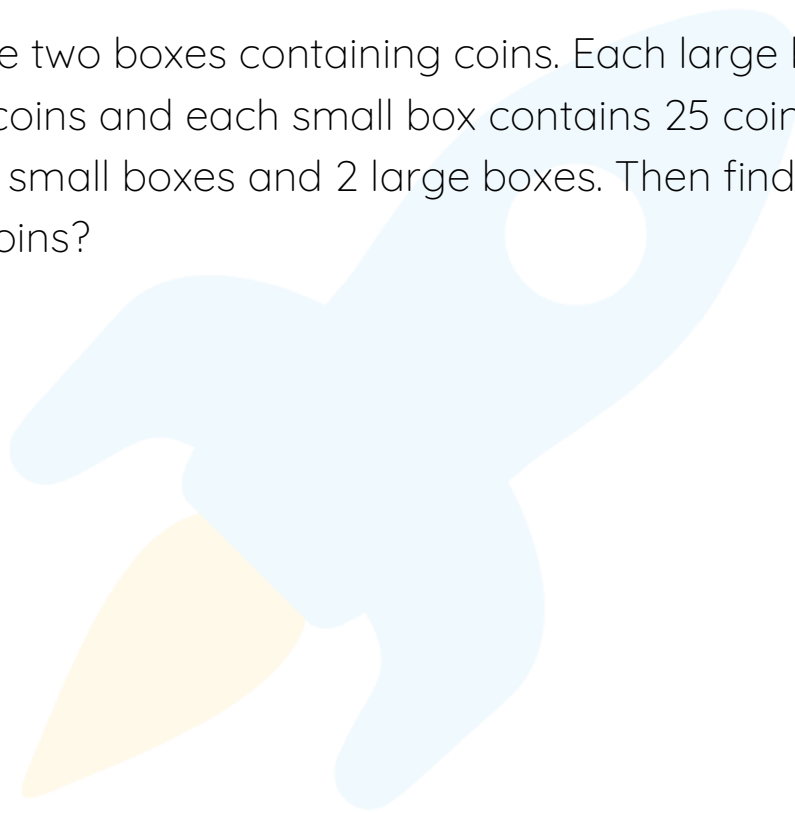
- 1) For $x = 1$, find the value of the following expression: $7x + 3$
- 2) Find the value of the following expression $\frac{45x + 12}{15} + 25$ for $u = 2$
- 3) Evaluate the given expression $\frac{21 + 23x}{22x} + 9$ for $x = 3$
- 4) Evaluate $(a^2 - b^2 - c)(a^2 + b^2 + c)$ for $a = 4, b = 6, c = 1$
- 5) Simplify the given expressions $49x^2 + 28x + 4$ and find its value for $x = 2$.
- 6) Evaluate the given expression $14x + 13y$ for $x = 2, y = 3$
- 7) Evaluate the following polynomial $15x^4 + 14x^2 + 16y^3 + 17y$ for $x = 1, y = 2$
- 8) Evaluate the given the expression $\frac{x^3 + 7x + 5}{21x + 51}$ for $x = 3$
- 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 $p = 3$,
 $q = 2$, $r = 4$

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

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 35 coins and each small box contains 25 coins. If there
are in total 4 small boxes and 2 large boxes. Then find the total
number of coins?



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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) 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.

