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Evaluating Expressions 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 $(a^2 + b^2 - c^3 + d)(a^2 + b^2 + c + d)$ 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 polynomials:
a) $2x^2 + 3x + 3y^3 + 2$ for $x = 1$, $y = 2$
b) $4m^4 + 7n^4$ for $m = 2$, $n = 4$
- 8) Evaluate the following:
a) $\frac{3x^3+4}{5x}$ for $x = 3$
b) $\frac{3u^3+2u+4}{5u+3}$ for $u = 2$
- 9) Simplify the following algebraic expressions:
a) $(12y)^2 + 2$ for $y = 3$
b) $(4z)^2 + (7k)^3$ for $z = 2$, $k = 4$
- 10) Evaluate the following expressions:
a) $2xy + 3x^2y + 5xy^3$ for $x = 3$, $y = 2$
b) $p^2q + 3pq + p^2q^2$ for $p = 2$, $q = 3$

When you learn math
in an interesting way,
you never forget.



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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) | -1133 |
| 5) | 256 |
| 6) | 67 |
| 7) | 7(a) 31 7(b) 1856 |
| 8) | 8(a) 193 8(b) 3213 |
| 9) | 9(a) 1298 9(b) 22016 |
| 10) | 10(a) 186 10(b) 66 |

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

