



GRADE 6 · EXPRESSIONS & EQUATIONS · HOMEWORK

EXPRESSIONS WITH VARIABLES

Today's goal: I can write numerical expressions in which letters stand for numbers and evaluate numerical expressions in which letters stand for numbers.



Pick your peppers!

Everyone does Mild & Medium. Then climb as high as you can.



Mild

Tan the Turtle



Medium

Digit the Fox



Spicy

Blaze the Dragon

WATCH MR DJ SOLVE

Evaluate $8 + 3a$ when $a = 4$.

1 $8 + 3(4) = 8 + 12 = 20$.

Answer: **20**



REMEMBER Substitute in **parentheses**, then order of operations. $9p - 4$ at $p = 5 \rightarrow 9(5) - 4 = 45 - 4 = 41$. Remember $3y$ means $3 \times y$, and in $2y^2$ only the y is squared.



FAMILY CORNER

No need to remember this math yourself! Ask your student to teach you Mr DJ's example, then try the first Mild problem together.



MILD

Tan the Turtle: Slow and steady. Warm up!

1 Evaluate $6n$ when $n = 7$.

Answer

2 Evaluate $n - 9$ when $n = 20$.

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Answered 67 — concatenated.

**MEDIUM****Digit the Fox:** Stretch your brain.

- 3 Evaluate $2y^2$ when $y = 3$. Show each step.

Answer

- 4 Evaluate $(m + 6) \div 4$ when $m = 10$.

Answer

- 5 Evaluate $7p - 5$ when $p = 6$.

Answer

**SPICY****Blaze the Dragon:** Bring the heat!

- 6 A club charges a \$15 membership fee plus \$6 per class. Write an expression for the cost of h classes, then find the cost of 4 classes.

Answer

7 Evaluate $3b + 2c$ when $b = 4$ and $c = 7$. Explain why you cannot add b and c first here.

Answer



How did this sheet feel?

☐

Easy for me

☐

Just right

☐

Made me think

Stuck? Watch Mr DJ explain it

"Variables, Expressions, and Equations Explained | Algebra for Beginners" on YouTube: youtube.com/@MathWithMrDJ

Brain break: daily puzzles

Three new math puzzles every day, free:
puzzles.mathwithmrdj.com