Name _____ Date Answers

# Writing Expressions With Variables

**Write each verbal expression as an algebraic expression.**

| | |
|---|---|
| the product of 9 and $c$<br>$9c$ or $9 \times c$ | the difference of 6 and $n$<br>$6 - n$ |
| $k$ divided by 8<br>$k \div 8$ | $j$ subtracted from 5<br>$5 - j$ |
| one-half of $x$ plus 4<br>$\frac{1}{2}x + 4$ or $\frac{x}{2} + 4$ | double the quotient of $f$ and 7<br>$2(f \div 7)$ |
| 10 less than the product of 5 and $d$<br>$5d - 10$ | 3 times the sum of 2 and $m$<br>$3(2 + m)$ |

Student answers may vary.

**Explain if each student is correct or incorrect. If needed, provide the correct algebraic expression.**

Lisette wrote the following algebraic expression to represent "4 times as large as the product of $w$ and 11."

$4 + w \times 11$

She is incorrect. The addition sign should be a multiplication sign, so the correct expression is $4 \times w \times 11$.

Samuel wrote the following algebraic expression to represent "twice the sum of 4 and $b$."

$2 \times 4 + b$

He is incorrect. He needs parentheses around $4 + b$, so the correct expression is $2(4 + b)$.

Tylah wrote the following algebraic expression to represent "12 less than $h$."

$h - 12$

She is correct. "12 less than $h$" means you should start with $h$ and subtract 12.