$\qquad$ Date: $\qquad$

## Variables and Expressions Assignment

Write an algebraic expression for each verbal expression.

1. One-fourth the cube of $\boldsymbol{x}$
2. The ratio between $\boldsymbol{m}$ and $\boldsymbol{v}$
3. The product of $\boldsymbol{w}$ and $\boldsymbol{h}$
4. Six more than two times a number
5. Three times the quantity eight plus $\boldsymbol{x}$
6. Nine divided by $\boldsymbol{x}$
7. $\boldsymbol{n}$ plus five squared
8. Four divide by a number

Find each value.
9. $15^{3}$
10. $\mathbf{3}^{5}$
11. $1 \mathbf{0}^{4}$
12. $7^{\mathbf{2}}$

Write a verbal expression for each algebraic expression.
13. $27-2 x$
14. $3 x^{2}+4$
15. 15y
16. $3 x^{2}-2 x$
17. $5^{4}$
18. $6 x-2$
19. $2 x+16$
20. $4 \div n$
$\qquad$ Date: $\qquad$

## Variables and Expressions Assignment <br> ANSWER | Write an algebraic expression for each verbal expression.

1. One-fourth the cube of $\boldsymbol{x}$
$=\frac{1}{4} x^{3}$
2. The ratio between $\boldsymbol{m}$ and $\boldsymbol{v}$
$=\frac{m}{v}$
3. The product of $\boldsymbol{w}$ and $\boldsymbol{h}$

$$
=w \cdot h
$$

4. Six more than two times a number $=\mathbf{6}+\mathbf{2 x}$
5. Three times the quantity eight plus $\boldsymbol{x}=\mathbf{3}(\mathbf{8}+\boldsymbol{x})$
6. Nine divided by $\boldsymbol{x}$

$$
=\frac{9}{x}
$$

7. $\boldsymbol{n}$ plus five squared

$$
=n+5^{2}
$$

8. Four divide by a number

$$
=\frac{4}{x}
$$

Find each value.
9. $15^{3}=15 \cdot 15 \cdot 15=3375$
10. $3^{5}=3 \cdot 3 \cdot 3 \cdot 3 \cdot 3=243$
11. $\mathbf{1 0}^{\mathbf{4}}=\mathbf{1 0} \cdot \mathbf{1 0} \cdot \mathbf{1 0} \cdot \mathbf{1 0}=\mathbf{1 0} 000$
12. $\mathbf{7}^{2}=7 \cdot 7=49$

Write a verbal expression for each algebraic expression.
13. $\mathbf{2 7} \mathbf{- 2 x}=$ the difference of twenty seven and twice a number $\boldsymbol{x}$
14. $3 x^{2}+4=$ three times $x$ squared plus four
15. $\mathbf{1 5 y}=$ fifteen times $\boldsymbol{y}$
16. $3 x^{2}-2 x=$ three times $x$ squared minus twice a number $x$
17. $\mathbf{5}^{\mathbf{4}}=$ five to the fourth power
18. $6 \boldsymbol{x}-2=$ six times $\boldsymbol{x}$ minus two
19. $2 x+16=$ twice a number $x$ plus sixteen
20. $\mathbf{4} \div \boldsymbol{n} \quad=$ four divided by $\boldsymbol{n}$

