

## Gen Math - Algebraic Modeling Worksheet



1. Simplify  $5 - 2(x + 5)$
2. Use algebraic formula and Evaluate :  $(998)^3$
3. If  $A = 6x + 10$ , and  $x$  is increased by 2, what will be the corresponding increase in  $A$ ?  
(A)  $2x$   
(B)  $6x$   
(C) 2  
(D) 12
4. If Diana was 25 years old 5 years ago, how old will be she  $x$  years after?  
A.  $30-x$   
B.  $20+x$   
C.  $30+x$   
D.  $x-30$   
E.  $x-20$
5. Which expression is equivalent to  $12k^3 \div 4k$ ?  
(A)  $3k^2$   
(B)  $3k^3$   
(C)  $8k^2$   
(D)  $8k^3$
6. What is the value of  $\sqrt{\{(x+2y)/8y\}}$ , if  $x = 5.6$  and  $y = 3.1$ , correct to 2 decimal places?  
(A) 0.69  
(B) 2.62  
(C) 2.83  
(D) 4.77
7. If  $(-7)(3/x+9)=0$  and  $x \neq 7$ , then  $x =$   
(A) -27

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- (B) -3
- (C)  $-1/3$
- (D)  $1/3$
- (E) 3

8. If  $15-x=3x-5$ , then  $3x=$

- (A) -25
- (B) -15
- (C) 0
- (D) 15
- (E) 25

9. Evaluate  $(\sqrt{5} + \sqrt{5})^2 =$

- (A) 5
- (B) 10
- (C) 20
- (D) 25
- (E) 50

10. If  $x=5$  and  $y=-5$ , what is the value of  $y^2 - 2y + 2x$ ?

- a. -25
- b. 15
- c. 25
- d. 45
- e. 55