PRE-ALGE	BRA REVIEW
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Name	Date	
Use the order of operations to simplify the following expressions.		
1. 2 x 4 + $2^2$	2. 5 (5 – 1)	
3. (9 × 2) ÷ 3	4. 3 <sup>2</sup> + 6	
5. 5 <sup>2</sup> – 3 + 3	6. $(5-3)^2 - (4 \times 4) + 6$	
$7.\frac{8^2-6(4)}{2(5)}-4$	8. 125 ÷ $[1(2+3)^2]$	
9. $3 \cdot 6 + 9 \div 3 - 6$	10. $2[3(2-5)^2+6]-1$	

## Translate each verbal expression to an algebraic expression.

11. Eight more than 3 times a number	12. The difference of 10 and a number
13. The quotient of 12 and a number	14. 15 less than twice a number

15. Three-fourths times the square of a number	16. The product of 5 and the cube of a number increased by the difference of 6 and x
17. Half the sum of x and y decreased by one-third of y	18. The sum of a number and six, divided by eight

## Translate each algebraic expression to a verbal expression.

<b>19</b> . <sup>25</sup> -×	<b>20.</b> x <sup>4</sup> - 12
21. $3 + \frac{1}{2}x$	<b>22.</b> 8 <sup>2</sup> - x
<b>23.</b> $\frac{6-x}{13}$	24. <sup>25(6+x)</sup>
<b>Complete each sentence by filling in the blanks.</b> 1. In the expression 70 – 3x, the variable is	and the constant is
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2. In the expression $4x^5 - 12$ , the coefficient of x i	s, the base
is, and the exponent is	·