

1.2

Name Key Hour _____

Writing Variable Expressions Worksheet

Write the verbal sentence as an algebraic expression:

1) The product of some number and three $X \times 3$ or $3X$

2) The quotient of seven and some number: $7 \div X$ or $\frac{7}{X}$

3) One-half of the sum of some number and four: $\frac{1}{2}(X+4)$ or $\frac{X+4}{2}$

4) Twice the quantity of the difference between 2 and some number $2(2-X)$

5) Twelve less than some number $X-12$

6) Twelve is less than some number $12 < X$

7) Sixteen is no more than some number: $X \geq 16$

8) Some number is at least twenty $X \geq 20$

9) The total of some number and three $X+3$

10) Seven decreased by some number $7-X$

11) The product of a number and 9 $9n$ or $n \times 9$

12) A number decreased by 40 can not exceed 5 $X-40 \leq 5$

13) The quantity of a number and three divided by 7 $(X+3) \div 7$ $\frac{(X+3)}{7}$

14) A number doubled is greater than that same number and ten $2X > X+10$

15) Six more than a number cubed is more than or equal to 50 $X^3 + 6 \geq 50$

16) Three times the quantity of a number plus twelve is equal to 36 $3(X+12) = 36$