

**1.2 C.A. Translating Verbal Expressions  
into Algebraic Equations**

Name: \_\_\_\_\_

**I. Indicate with math symbols what operations are being described by the given word(s). Use +, -, x, or ÷ symbols.**

- |                    |                       |                       |
|--------------------|-----------------------|-----------------------|
| 1. Sum _____       | 2. Product _____      | 3. Decreased by _____ |
| 4. Quotient _____  | 5. Increased by _____ | 6. Difference _____   |
| 7. More than _____ | 8. Less than _____    | 9. Total _____        |

**II. Write a verbal expression for the algebraic expression.**

10)  $5(a - m^3)$

**III. Solve using mental math.**

11)  $\frac{x}{15} = 4$

12)  $\frac{a}{17} = 10$

13)  $19 - b = 12$

14)  $-14v = 70$

**IV. Evaluate and verify.**

Check to see if 20 is a solution.

15)  $-1 - 5v \leq -16$

16)  $1 + \frac{n}{5} > -2$

17)  $2x - 2 > 20$

18)  $2 + \frac{x}{3} \leq -1$

**V. Write an algebraic expression/equation/inequality to the given verbal expression.**

- |  |   |
|--|---|
| 20. Eight less than a number               | 21. A number increased by seven is 16                     |
| 22. The quotient of $m$ and $n$            | 23. 9 times a number squared is less than or equal to 36. |
| 24. A number cubed is at least 64.         | 25. The total of a number and 7 is 22.                    |
| 26. Seven more than the cube of a number   | 27. One-half the product of $x$ and $y$ is at most 15     |
| 28. The product of twice $a$ and $b$ is 24 | 29. Twice the ratio of $a$ and $b$                        |
| 30. Two less than five times a number      | 31. Twice a number decreased by three times the number    |
| 32. The sum of 3 times $a$ and $b$         | 33. Three times the sum of $a$ and $b$ is greater than 24 |
| 34. The cube of $a$ plus $b$               | 35. The cube of the sum of $a$ and $b$                    |

36. Your family takes a road trip to Berlin for the weekend. You've driven 120 miles so far, but need to travel  $m$  miles total.

Write an expression representing how many more miles you must travel to reach your destination.

37. You have  $x$  Timbits you would like to divvy up evenly between you and 8 friends.

Write an expression representing how many Timbits each person would get including yourself.