**Math 6 – Chapter 2 PRACTICE TEST** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Sections 2-1 through 2-8 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
□Please complete this STUDY GUIDE to help you prepare for the **TEST** on   
□Please SELF-CHECK using the answer key from my website.  
□Have a parent sign BELOW in order to receive one full extra credit point added to your **TEST** grade.

Parent signature: (My child has completed and checked this practice).

1.) Which of the following is **not** an equation? 2.) Which of the following is an equation?

a.) x - 5 = 0 b.) 12 + r = 50 a.) h - 150 b.) w + 2 = 7

c.) 7w = 49 d.) x - 3 c.) 15c d.) 7 thousand

**3 - 10.)Complete the table by evaluating each expression for x = 2. Show your substitution and all work inside the box.**

|  |  |
| --- | --- |
| x | 3.) |
| x + 5 | 4.) |
| 17 - x | 5.) |
| 9x | 6.) |
| 144  x | 7.) |
| x ÷ x | 8.) |
| 2x² | 9.) |
| 8x - 2³ | 10.) |

**Write an algebraic expression for the following.**

12.) The difference of a number and *x*. 12.)

13.) The product of *r* and 5. 13.)

14.) The sum of a number *t* and 10. 14.)

15.) 7 less than *q*  15.)

16.) *h* cubed 16.)

**What is an expression for the sequence in the tables?**

18.) 19.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dogs | 1 | 2 | 3 | n |
| Legs | 4 | 8 | 12 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Position | 11 | 22 | 33 | 44 | 55 | n |
| Value of Term | 1 | 2 | 3 | 4 | 5 |  |

**Determine whether the given value of the variable is a solution. Show your substitution and all work then write YES or NO!**

|  |  |
| --- | --- |
| 20.) d + 15 = 57 for d = 10 | 21.) 104 ÷ x = 27 for x = 4 |
| 22.) 37 = r - 15 for m = 52 | 23.) 3x = 30 for x = 9 |

**Give TWO phrases for each expression.**

24.) 24.)

25.) 20 – x 25.)

**Solve each equation for the variable, SHOW ALL WORK and check!**

**CHECK CHECK**

|  |  |  |  |
| --- | --- | --- | --- |
| 26.) y + 15 = 30 |  | 27.) 12 + x = 32 |  |
| 28.) t – 17 = 42 |  | 29.) 25 = p — 53 |  |
| 30.) 3v = 39 |  | 31.) 15c = 60 |  |
| 32.) |  | 33.) |  |
|  |  |  |  |