Math 6 – Chapter 2 PRACTICE QUIZ
Sections 2-1 through 2-8

Name _Key_
Date _____

Please complete this STUDY GUIDE to help you prepare for the **TEST** on _____
Please SELF-CHECK it using the answer key from website.
Have a parent sign BELOW in order to receive one full extra credit point added to your quiz grade.

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

1.) Which of the following is **not** an equation?
  a.) $x - 5 = 0$ b.) $12 + r = 50$

  c.) $7w = 49$ (d.) $x - 3$

2.) Which of the following is an equation?
  a.) $h - 150$ (b.) $w + 2 = 7$

  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.) $x = 2$
$x + 5$	4.) $2 + 5 = 7$
$17 - x$	5.) $17 - 2 = 15$
$9x$	6.) $9 \cdot 2 = 18$
$\dfrac{144}{x}$	7.) $\dfrac{144}{2} = 72$
$x \div x$	8.) $2 \div 2 = 1$
$2x^2$	9.) $2 \cdot 2^2 = 2 \cdot 4 = 8$
$8n - 2^3$ $8x - 8$	10.) $8 \cdot 2 - 8 = 8$

Write an algebraic expression for the following.
1.) The difference of a number and x.

13.) The product of r and 5.

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

12.) _$6 - x$_

13.) _$5r$_

14.) _$t + 10$_

15.) 7 less than q

16.) h cubed

15.) $q - 7$

16.) h^3

What is an expression for the sequence in the tables?

18.)

Dogs	1	2	3	n
Legs	4	8	12	$4n$

$1 \times 4 \quad 2 \times 4 \quad 3 \times 4$

19.)

Position	11	22	33	44	55	n
Value of Term	1	2	3	4	5	$\underline{n}$

$11 \div 11 \quad 22 \div 11 \qquad 44 \div 11 \qquad \frac{n}{11}$

$33 \div 11 \qquad 55 \div 11$

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 $d = 10$

$10 + 15 \neq 57$

No

21.) $104 \div x = 27$ for $x = 4$

$104 \div 4 \neq 27$

No

22.) $37 = r - 15$ for $m = 52$

$37 = 52 - 15$

Yes

23.) $3x = 30$ for $x = 9$

$3 \cdot 9 \neq 30$

No

Give <u>TWO</u> phrases for each expression.

24.) $x \div 12$

24.) x divided by 12
the quotient of x and 12

25.) $20 - x$

25.) 20 minus x
x less than 20

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

CHECK

CHECK

26.) $y + 15 = 30$
$$-15 \quad -15$$
$$y = 15$$
$15 + 15 = 30$

27.) $12 + x = 32$
$$-12 \quad -12$$
$$x = 20$$
$12 + 20 = 32$

28.) $t - 17 = 42$
$$+17 \quad +17$$
$$t = 59$$
$59 - 17 = 42$

29.) $25 = p - 53$
$$+53 \quad +53$$
$$78 = p$$
$78 - 53 = 25$

30.) $\dfrac{3v}{3} = \dfrac{39}{3}$
$$v = 13$$
$3 \cdot 13 = 39$

31.) $\dfrac{15c}{15} = \dfrac{60}{5}$
$$c = 4$$
$15 \cdot 4 = 60$

32.) $\dfrac{x}{6} = 10 \cdot 6$
$$x = 60$$
$\dfrac{60}{6} = 10$

33.) $x^2 = 36$
$$x^2 = 36$$
$$x \cdot x = 36$$
$$6 \cdot 6 = 36$$
$$x = 6$$