DIGITAL

NAME	DATE
Module Test B	Module 3
1. List the property of equality used in eac	ch step to solve the following problem.
$2h - 6 = -5h - \frac{16}{3}$	Given
a. $6h - 18 = -15h - 16$	Multiplication Property of Equality
b. $21h - 18 = -16$	Addition Property of Equality
c. $21h = 2$	Addition Property of Equality
d. $h = \frac{2}{21}$	Division Property of Equality
2. Solve the following equations by inspect	tion.
a. 6x = 24 <u>x</u> = 4	 b. <i>a</i> − 10 = 23 _a = 33
c. $\frac{j}{3} = 6$ <u>j</u> = 18	. d . <i>M</i> − 12 = 5 . M = 17
3. Rewrite the following equations for the	
a. $k = h + 3g$ for $g = \frac{k - h}{3}$ c. $3x + 5 = 2y$ for $x = \frac{2y - 5}{3}$	b. $3Rk = j + 28$ for $k = \frac{k = \frac{j + 28}{3R}}{3R}$
c. $3x + 5 = 2y$ for $x = \frac{2y - 5}{3}$	$ d. A = \pi vr \text{ for } r - \frac{\mathbf{r} = \frac{\mathbf{A}}{\pi \mathbf{v}}}{$
4. Determine if the following equations are equations. Solve the equations to find the equations the equations to find the equations	
a. $3n + 2n = -6n + 11$	b. 4 <i>l</i> = 24
multi-step; $n = 1$	one-step; I = 6
c. $9K = 3K + 12$	d. $3Z - 5 = 23 + 7Z$
two-step; K = 2	multi-step; Z = -7

5. List the property of equality used below.

a. If $2r = g$ and $g = 3v$, then $2r = 3v$.	b. 13 = 13	
Transitive Property of Equality	Reflexive Property of Equality	
c. If $3 - x^2 = 3y$, then $3y = 3 - x^2$.	d. If $9h = 9$, then $h = 1$.	
Symmetric Property of Equality	Division Property of Equality	

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Solve the following linear equations.	
6. $2m = 6 \frac{m = 3}{3}$	7. $6h = 5h - 13$ $h = -13$ 9. $6m - 7 = -8$ $m = \frac{-1}{6}$
8. $10 = 7 + 5x \frac{x = \frac{3}{5}}{2}$	9. $6m - 7 = -8 \frac{m = \frac{-1}{6}}{6}$
10. $3K = \frac{2}{7} \frac{\mathbf{k} = \frac{2}{21}}{\mathbf{k} = \frac{2}{21}}$	
Are the following pairs of statements true or falses	?
1. $h = 3 + t$ and $t = h + 3$	12. $4K = 3(5 + K)$ and $K = 15$
False	True
3. $4L = 1 + 5W$ and $2 = 4L + 5W$	14. $C = 2\pi r$ and $\pi = \frac{C}{2r}$
False	True
True	equations.
True True or False, $x = 3$ is a solution to the following e	equations. 17. $x + 10 = 7x - 7$
True True or False, $x = 3$ is a solution to the following e	
True True or False, $x = 3$ is a solution to the following of a.6. $2x + 3 = 9$ True	17. $x + 10 = 7x - 7$
True True or False, $x = 3$ is a solution to the following of 6. $2x + 3 = 9$ True	17. $x + 10 = 7x - 7$ False
True True or False, $x = 3$ is a solution to the following of a.6. $2x + 3 = 9$ True a.8. $\frac{21}{x} = 4 + x$ True	17. $x + 10 = 7x - 7$ False 19. $15x = \frac{45}{x} + 3$
True Frue or False, $x = 3$ is a solution to the following of 6. $2x + 3 = 9$ True 8. $\frac{21}{x} = 4 + x$ True	17. $x + 10 = 7x - 7$ False 19. $15x = \frac{45}{x} + 3$
TrueFrue or False, $x = 3$ is a solution to the following of6. $2x + 3 = 9$ True8. $\frac{21}{x} = 4 + x$ True20. $12 = 5x - 3$ True	17. $x + 10 = 7x - 7$ False 19. $15x = \frac{45}{x} + 3$
Frue or False, $x = 3$ is a solution to the following of 16. $2x + 3 = 9$ True 18. $\frac{21}{x} = 4 + x$ True 20. $12 = 5x - 3$	17. $x + 10 = 7x - 7$ False 19. $15x = \frac{45}{x} + 3$

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solve for b or h as needed.

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