

H.W.

~~Test Numbers and Equations test REVIEW~~

Name: _____

Period: _____

Equation	Check	Equation	Check
1.) $8x + 9 = -7$	$8(\quad) + 9 = -7$	2.) $5 + \frac{x}{4} = 7$	$5 + \frac{(\quad)}{4} = 7$
5.) Which inverse operations would you use to solve the equation $4x + 3 = 23$		6.) Which inverse operations would you use to solve the equation $\frac{m}{5} - 8 = -6$	
a.) Add 3 to both sides and then divide by 4.		a.) Add 8 to both sides and then divide each side by 5.	
b.) Subtract 3 from both sides and then multiply each side by 4.		b.) Add 8 to both sides and then multiply each side by 5.	
c.) Subtract 3 from both sides and then divide each side by 4.		c.) Subtract 8 from both sides and then multiply each side by 5.	
d.) Multiply both sides by 4 then subtract 3 from each side.		d.) Multiply both sides by 5 and then add 8 to each side.	

Two-Step Word Problems

5.) Ms. Monger has <u>\$60 left</u> on her last day of spring break and would like to spend the afternoon jet skiing. If the jet ski rental service charges <u>\$8 for each hour</u> and a fuel and cleaning fee of <u>\$20</u> with each rental, how long can Ms. Monger enjoy the jet ski if she spends her \$60? Use the equation below to find how many <u>hours</u> she can jet ski.	6.) You have a summer job as a lifeguard at the community pool for <u>\$10 per hour</u> . You are required to attend a safety course and the <u>\$6 fee</u> for the course will be <u>deducted</u> from your earnings. If you <u>earned \$84</u> the first week, how many <u>hours</u> did you work? Use the equation below to find how many hours you worked.
a.) $30 = 60x + 10$	a.) $10x + 84 = 6$
b.) $20x + 8 = 60$	b.) $10x - 6 = 84$
c.) $8x - 20 = 60$	c.) $6x + 10 = 84$
d.) $60 = 8x + 20$	d.) $10x + 6 = 84$

Multi-Step Equations

Equation	Check	Equation	Check
7.) $8x + 5 = 5x - 10$	$8(\quad) + 5 = 5(\quad) - 10$	8.) $3x + 4 = 7x - 12$	$3(\quad) + 4 = 7(\quad) - 12$
15.) Which steps could you use to solve the equation $7x + 6 = 4x - 9$		16.) What steps could you use to solve the equation $15x - 10 = 9x + 8?$	
a.) Add $4x$ to both sides. Then, subtract 6 from both sides. Finally, divide both sides by 10 .		a.) Subtract $9x$ from each side. Then, subtract 8 from each side. Finally, divide both sides by 3 .	
b.) Subtract $4x$ from both sides. Then, subtract 6 from both sides. Finally, divide both sides by 3 .		b.) Subtract $9x$ from each side. Then, add 10 to each side. Finally, divide both sides by 6 .	
c.) Subtract $7x$ from both sides. Then, subtract 9 from both sides. Finally, divide both sides by -3 .		c.) Subtract $9x$ from each side. Then, add 8 to each side. Finally, divide both sides by 3 .	