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Date: _____

Period: _

If you were a superhero, who would you be?

3) 3x - 2 = 5x + 8

<u>Classwork→Solving Equations</u>

What grade are you going to earn on this classwork?

<u>Tool Box</u>

- 1. Distributive Property
- 2. Combining Like Terms
- 3. Inverse Operations

Find the mistake in each of the following. Then, write a recommendation for what the student should do next time.



Solve the following equation in <u>more than one way</u>.

Solve for x:

1) $10x + 11 = 3x - 10$	2)	10x + 11 = 3x - 10
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4) 11x - 24 = 3x + 8

5)	-4x + 9 = 5x - 18	6)	5x + 8 = 3x - 12

7) 7x - 5 = 4x + 10

8) 4x - 3 = 11x + 18

9) Kanye West is 68 inches tall. He still grows 1 inch per year. His son, North West, is 22 inches tall but grows 4 inches per year. How many years until North is as tall as Kanye?

- a) How tall is Kanye after 2 years? How tall is North after 2 years?
- b) How tall is Kanye after 7 years? How tall is North after 7 years?
- c) Write a mathematical expression for Kanye's height at any year.
- d) Write a mathematical expression for North's height at any year.
- e) How many years until North and Kanye are the same height?

10) Find the mistake in each of the following. Then, write a recommendation for what the student should do next time.





If 3x + 7 = 28 - 5x, then x = ?

What is the solution of x + 3.4 = 20.91?

- **F.** 24.31 **G.** 23.95
- H. 17.87
- **J.** 17.51
- **K.** 6.15

F.
$$\frac{21}{8}$$

G. $\frac{35}{8}$
H. $\frac{23}{10}$
J. $-\frac{35}{2}$
K 35

8

11)	-4(2x+7) = 6x - 12		12)	-4(2x+7) = 6x - 12
		Solve for x:		
13)	0.5(4x+6) = 15		14)	5(2x - 8) = 4x + 3
15)	-3(2x - 8) = 4x + 4		16)	5x + 10 = 11x + 6 - 7x

17) 2x + 6 = 6x - 12 + 2x18) 13x - 11 = 9x + 5

19) 15x + 7 = 7x - 17

20) Tickets to a Mavs game cost \$45. Bags of popcorn costs \$6 per bag inside the arena. How many bags of popcorn can you buy if you have \$75?