

Monday: 9.14.15

Pick up bellwork paper by door.

### Property of Equality Notes

Match each property on the left with the example on the right:

Addition Property of Equality

$$a = a$$

Symmetric Property of Equality

$$4x - 2 = 6$$
$$4x = 8$$

Reflexive Property of Equality

If  $a = 3$ , then  $a + 5 = 8$

Transitive Property of Equality

If  $a = b$ , then  $b = a$

Substitution Property of Equality

If  $a = b$  and  $b = c$ , then  $a = c$

### Examples:

Solve the following equations and write the correct property of equality that you use for each step.

1.  $x - 1 = 11$  Property of Equality:

~~$x - 1 = 11$~~  Subtraction

$x \neq 10$

2.  $x - 2 = 5$  Property of Equality:

~~Subtraction~~ Addition

$x - 2 = 5$

$x + 2 = 7$