4.1 Day 1 Worksheet Answers

1. C
2. Addition Property of Equality
3. Substitution Property
4. Transitive Property of Equality
5. Multiplication Property of Equality
6. Segment Addition Postulate
7. Substitution Property
8.

Statements	Reason
B is between A and C	**Given**
AB + BC = AC	**Segment Addition Postulate**
AB = AC - BC	**Subtraction Property of Equality**

9.

Statements	Reason
K is between J and L	**Given**
JK = 6, KL = 10	**Given**
JL = JK+KL	**Segment Addition Postulate**
JL = 6+10	**Substitution Property**
JL = 16	**Simplify**

10. Transitive Property
11. Substitution Property
12. Segment Addition Postulate
13. Answers may vary … Giving the specific reasons for each step in the problem.
14. Answers may vary… Statement(s) you can assume are true to start a problem.
15. Answers may vary
16. Answers may vary … a=a
17. Answers may vary … If a=b then b=a
18. Answers may vary … If a=b and b=c, then a=c
19.

Statements	Reason
$55x - 3(9x + 12) = -64$	**Given**
$55x - 27x - 36 = -64$	**Distributive Property**
$28x - 36 = -64$	**Combine Like Terms**
$28x = -28$	**Addition Property of Equality**
$x = -1$	**Division Property of Equality**

20.

Statements	Reason
$3(x^2 - 9) = 48$	**Given**
$3x^2 - 27 = 48$	**Distributive Property**
$3x^2 = 75$	**Addition Property of Equality**
$x^2 = 25$	**Division Property of Equality**
$x = \pm 5$	**Square Root Property of Equality**