4.1 Day 2 Worksheet Answers

- 1. Transitive Property of Equality
- 2. Combining Like Terms
- 3. Reflexive Property of Equality
- 4. Multiplication Property of Equality
- 5. Reflexive Property of Equality
- 6. Symmetric Property of Equality

- 8. B
- 9. B 10. A

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Statements	Reason
AC = BD	Given
AC = AB + BC, $BD = BC + CD$	Segment Addition Postulate
AB + BC = BC + CD	Substitution Property of Equality
AB = CD	Subtraction Property of Equality

12.

Statements	Reason
R, J, M are collinear. RJ = 3, RM = 8	Given
RJ + JM = RM	Segment Addition Postulate
3 + JM = 8	Substitution Property of Equality
JM = 5	Subtraction Property of Equality

13.

(2)C

- 14.
- (1) A, B, C

- 15.
- (2) B

(3) B

(2) H(3) D

(3) A

(4) D

(4) E (5) D

(5) A

(4) G (5) F

(6) F

(6) E

(7) C

16.

Statements		Reason		
	(1) -6(1 - 5x) = 54	Given		
	(2) -6 + 30x = 54	Distributive Property		
	(3) $30x = 60$	Addition Property of Equality		
	(4) x = 2	Division Property of Equality		

17.

Statements	Reason
(1) $XY = 3x + 1$, $YZ = 58 - 3x$, $XZ = x^2 + 10$	Given
(2) XZ = XY + YZ	Segment Addition Postulate
$(3) x^2 + 10 = 3x + 1 + 58 - 3x$	Substitution Property
$(4) x^2 + 10 = 59$	Combine Like Terms
(5) $x^2 = 49$	Subtraction Property of Equality
(6) $x = 7$	Square Root Property of Equality