Int Math Name_____

6-1 Segment Addition Postulate (ver2)_hw

Date_____ Period____

Points A, B, and C are collinear. Point B is between A and C. Find the length indicated.

1) Find AC if $BC = 6$ and $AB = 10$.

2) Find BC if $AB = 11$ and $AC = 15$.

3) Find BC if $AB = 10$ and $AC = 22$.

4) $AB = 3$ and $BC = 12$. Find AC.

5) Find BC if $AC = 19$ and $AB = 11$.

6) $AC = 9$ and $BC = 1$. Find AB.

7) $AB = 7$ and $BC = 10$. Find AC.

8) Find AC if $BC = 9$ and $AB = 3$.

Points A, B, C, and D are collinear and positioned in that order. Find the length indicated.

9) $AD = 21$, $AC = 13$, and $BC = 10$. Find BD.

10) $AB = 11$, $AD = 22$, and $BC = 9$. Find CD.

11) $BD = 13$, $BC = 11$, and $AD = 19$. Find AC.

12) Find BC if $AC = 20$, $AD = 23$, and $BD = 15$.

13) Find BC if $BD = 4$, $AC = 11$, and $AD = 12$.

14) $BD = 14$, $AC = 11$, and $BC = 7$. Find AD.

15) Find AB if $CD = 7$, $AD = 17$, and $BC = 1$.

16) $BD = 17$, $AD = 26$, and $BC = 10$. Find AC.

17) $AD = 22$, $AB = 6$, and $CD = 7$. Find BC.

18) $AD = 11$, $BC = 3$, and $BD = 4$. Find AC.

19) $AB = 9$, $BC = 5$, and $AD = 16$. Find CD.

20) $BD = 12$, $AD = 17$, and $AC = 9$. Find BC.

21) Find BD if $AC = 9$, $AD = 17$, and $BC = 7$.

22) Find AD if $AC = 18$, $BD = 18$, and $BC = 10$.

23) Find BD if $AC = 18$, $BC = 10$, and $AD = 25$.

24) $AD = 31$, $CD = 8$, and $AB = 11$. Find BC.

25) Find AB if $CD = 2$, $BC = 12$, and $AD = 15$.

26) Find AC if $AD = 16$, $BC = 4$, and $BD = 12$.

27) $AD = 14$, $BC = 1$, and $AC = 6$. Find BD.

28) $AC = 24$, $CD = 12$, and $AB = 12$. Find BD.

29) $AD = 24$, $CD = 8$, and $AB = 12$. Find BC.

30) $AC = 16$, $BC = 7$, and $BD = 8$. Find AD.

31) Find AD if $BC = 10$, $AC = 13$, and $BD = 15$.

32) Find AB if $AD = 26$, $CD = 12$, and $BC = 5$.

33) Find BD if $CD = 12$, $AB = 7$, and $AC = 19$.

34) Find BC if $AB = 12$, $AD = 15$, and $CD = 1$.

35) Find BC if $BD = 15$, $AD = 21$, and $AC = 14$.

36) Find CD if $AD = 25$, $AB = 7$, and $BC = 9$.

37) $BD = 13$, $AD = 24$, and $AC = 14$. Find BC.

38) Find BD if $AC = 12$, $BC = 11$, and $AD = 14$.

39) Find AB if $BC = 8$, $CD = 7$, and $AD = 22$.

40) $AD = 15$, $BC = 1$, and $CD = 9$. Find AB.

Answers to 6-1 Segment Addition Postulate (ver2)_hw

1) 16
2) 4
3) 12
4) 15
5) 8
6) 8
7) 17
8) 12
9) 18
10) 2
11) 17
12) 12
13) 3
14) 18
15) 9
16) 19
17) 9
18) 10
19) 2
20) 4
21) 15
22) 26
23) 17
24) 12
25) 1
26) 8
27) 9
28) 24
29) 4
30) 17
31) 18
32) 24
33) 24
34) 2
35) 8
36) 9
37) 3
38) 13
39) 7
40) 5