

Name:  
Grade:

Date:

**Segment Addition Postulate**

1)  $AD = 21$ ,  $AC = 17$ , and  $BD = 12$ .  
Find  $BC$ .

2) Find  $AB$  if  $BC = 11$ ,  $AD = 22$ ,  
and  $CD = 4$ .

3)  $AB = 1$ ,  $AC = 7$ , and  $CD = 7$ . Find  $BD$ .

4) Find  $AB$  if  $AD = 19$ ,  $CD = 4$ ,  
and  $BC = 10$ .

5) Find  $AD$  if  $BD = 16$ ,  $BC = 4$ ,  
and  $AC = 8$ .

6)  $AD = 18$ ,  $BC = 5$ , and  $BD = 14$ .  
Find  $AC$ .

7)  $AD = 13$ ,  $AC = 9$ , and  $BC = 7$ . Find  $BD$ .

8) Find  $BC$  if  $AC = 17$ ,  $AD = 29$ ,  
and  $BD = 19$ .

9) Find  $AB$  if  $AD = 20$ ,  $CD = 5$ ,  
and  $BC = 8$ .

10) Find  $BC$  if  $CD = 12$ ,  $AB = 3$ ,  
and  $AD = 16$ .

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Answers to

- 1) 8
- 4) 5
- 7) 11
- 10) 1

- 2) 7
- 5) 20
- 8) 7

- 3) 13
- 6) 9
- 9) 7