Name:

Date:

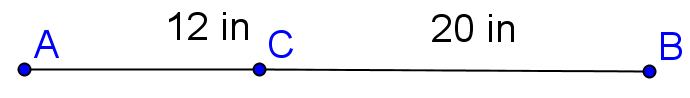
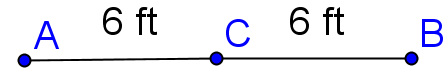
School:

Facilitator:

2.03 Segment Partitions and Midpoint

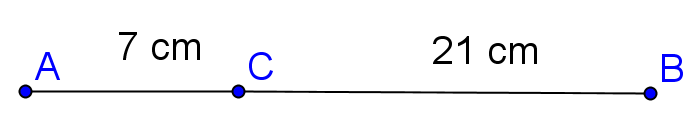
Total Points: 35

**Given the line segment, state the ratio of the segment partitions as . Be sure to reduce fractions.**

1.  3. 

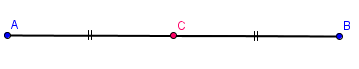
Answer:

Answer:

2. 

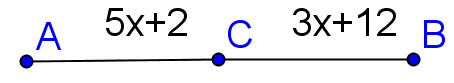
Answer:

**Given the line segment with C as the midpoint, find the length of the unknown segment.**



4. Given AC = 12 in 5. Given AC = 9 in

then CB =       then AB =

  
6. Given AC = 5x + 2 and CB = 3x + 12, find x.   
Show your work.

**Initial equation:**       **=**      

**Answer:**      

**Enter your work below.**

**Find the coordinates of the midpoint of a segment with the given endpoints. Show your work.**

7. (-3, 5), (7, -1)

**Answer:** (      ,      )

Show your work below.

8. (4, -3), (-6, 6)

**Answer:** (      ,      )

Show your work below.