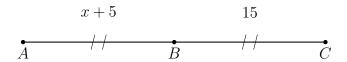
Unit 1: Segments, length, and area

13 Sept 2022

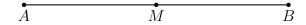
1.4 Classwork: Midpoints and bisectors

1. Point B is the midpoint of \overline{AC} , with AB = x + 5, BC = 15. First write an equation representing the situation, find x, then check it.

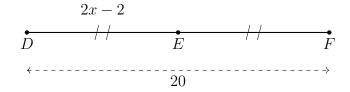
Name:



- 2. Given M is the midpoint of \overline{AB} , AM = 5x + 2, MB = 22.
 - (a) Mark the diagram with the values and tick marks
 - (b) Write an equation and solve for x
 - (c) Check your result



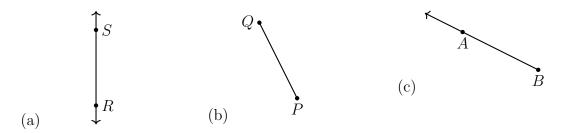
3. Point E bisects \overline{DEF} and DE = 2x - 2, DF = 20. Find x. (show check)



- 4. Two line segments or angles of equal measure are ______.
- 5. Points on the same plane are _____
- 6. Mark point L on the ray exactly 8 centimeters from the endpoint K. (measure it)



7. Name each object using symbolic notation.



8. Two points P(-12.2), Q(-5.5) are shown on the number line. Find PQ.

- 9. Assume that Dr. Huson's rides to school straight north from 80th Street to 164th Street.
 - (a) How many blocks is his morning commute?
 - (b) On what street is Dr. Huson's half way each morning?
 - (c) In the afternoon return commute, what street is half way?