Pd

CYU 1.2 Segments

☑ Use when you get it right all by yourself

 ${old S}$ Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

₿ Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Compute distance on a number line. Between.	1, 2	9	3, 10
Segment addition postulate.	7	5, 6, 8a	4, 8b, 11

1. Suppose B is between A and C. If BC = 73.2u and AB = 39.9u, what is AC?

- 2. State the "betweenness" relationship if QP = 42.7u, QR = 79.9u, and RP = 37.2u.
- 3. A, B, and C are collinear points with coordinates a, b, c respectively.

a. If b = -10, c = 4 and BA = 287u, find BC and CA, give 2 possible answers.

- b. C is between A and B. AC = BC, CB = 10cm, and c = 14. Give 2 possible coordinates for A.
- 4. AB = 3x 4, AC = 40m and AB = BC Find x.

5.	Find FH.	<u> </u>	;			6. Find FH.	F
		F	н	15	G		

42 H 22 G

7. In 2003, a remote-controlled model airplane became the first ever to fly nonstop across the Atlantic Ocean. The map shows the airplane's position at three different points during its flight.

Point A represents Cape Spear, Newfoundland, point B represents the approximate position after 1 day, and point C represents Mannin Bay, Ireland. The airplane left Cape Spear and landed in Mannin Bay.



- b. The model airplane's flight lasted nearly 38 hours. Estimate the airplane's average speed in miles per hour.
- 8. Write an expression for the length of the segment.



- 9. Your friend and your cousin discuss measuring with a ruler. Your friend says that you must always line up objects at the zero on a ruler. Your cousin says it does not matter. Decide who is correct and explain your reasoning in words.
- 10. You travel from City X to City Y. You know that the round-trip distance is 647 miles. City Z, a city you pass on the way is 27 miles from City X. Find the distance from City Z to City Y. Justify your answer.
 - 11. Is it possible to use the Segment Addition Postulate to show FB > CB or that AC > DB? Explain your reasoning.

CYU Reflection: How far can you go: basic, intermediate, or advanced?



