

Name: _____

Date: _____

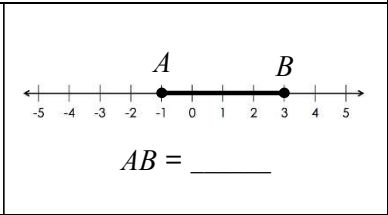
Topic: _____

Class: _____

Main Ideas/Questions	Notes/Examples
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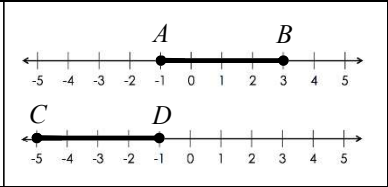
MEASURING
SEGMENTS

The distance between two points A and B be written as _____ or _____.



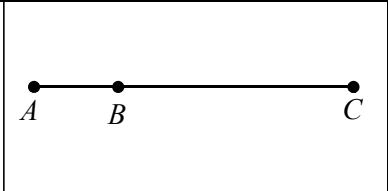
CONGRUENT
SEGMENTS

If _____, then the segments are congruent. This is written as _____.



SEGMENT
ADDITION
Postulate

If A , B , and C , are collinear points and B is between A and C , then _____



Examples

Use the diagram below for questions 1 and 2.

1. If $PQ = 9$ and $QR = 28$, find PR .

2. If $QR = 17$ and $PR = 21$, find PQ .

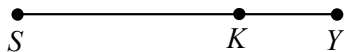
3. If $EG = 71$, find the value of x .

4. If $TV = 14x - 8$, find TU .

5. If $JL = 5x + 2$, find JL .

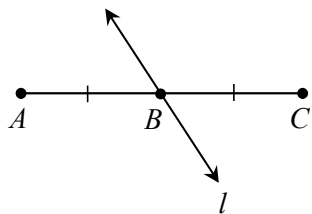
6. If $CE = 7x + 4$, find the value of x .

7. If $SK = 13x - 5$, $KY = 2x + 9$, and $SY = 36 - x$, find each value.



$x =$ _____
 $SK =$ _____
 $KY =$ _____
 $SY =$ _____

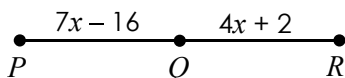
MIDPOINT of a Segment



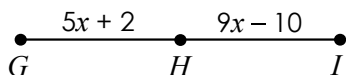
- The _____ of a segment is a point that divides the segment into _____.
- A line, ray, or segment that intersects a segment at its midpoint is said to _____ the segment and is called the _____.
- In the diagram to the left, _____ is the midpoint of _____ and line _____ is a _____ of _____.

Examples

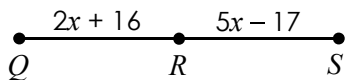
8. If Q is the midpoint of \overline{PR} , find the value of x .



9. If H is the midpoint of \overline{GI} , find GH .



10. If R is the midpoint of \overline{QS} , find QS .



11. If G is the midpoint of \overline{FH} and $FH = 6y - 2$, find y .

