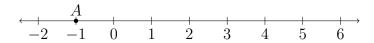
Unit 1 Re-Quiz: Spicy problems

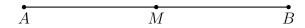
1. Given point A(-1) as shown below. Locate point, B>0, on the number line such that $AB=3\frac{1}{2}$.



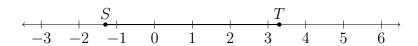
- (a) Mark and label B.
- (b) State the value of B, writing an equation to support your work.

2. Given M is the midpoint of \overline{AB} , AM = 5x + 11, MB = x + 21.

- (a) Mark the diagram with the values and tick marks
- (b) Write an equation and solve for x
- (c) Check your result

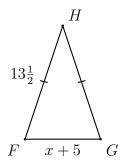


3. Given S(-1.3) and T(3.3), as shown on the number line. Mark and label the midpoint M that bisects \overline{ST} .

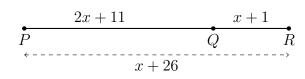


4. The perimeter of the isosceles $\triangle FGH$ is 35 with $\overline{FH}\cong \overline{GH}$. If FG=x+5 and $FH=13\frac{1}{2},$ find x.

Show your work with an equation for full credit.



5. Given \overline{PQR} , PQ=2x+11, QR=x+1, PR=x+26. Find x.

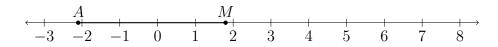


- (a) Write down an equation to represent the situation.
- (b) Solve for x.
- (c) Check your answer.

6. Given the points S and T trisect the line segment \overline{RU} , as shown below. If RT=7, find RU.

7. Given A(-2.1) and M(1.8), as shown on the number line. The point B is such that M bisects \overline{AB} .

Find the value of B. Mark and label it on the number line.



- 8. The point Q lies on \overline{AB} three quarters of the way from A to B. Given AB=28.
 - (a) Mark and label the approximate location of Q.
 - (b) Find AQ. State an equation for full credit.

