



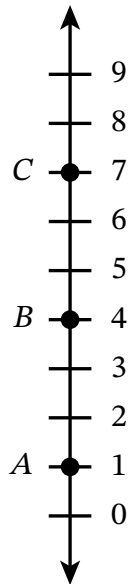
1

 Name _____

 Date _____

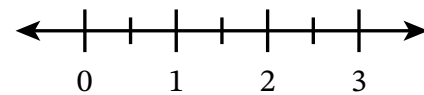
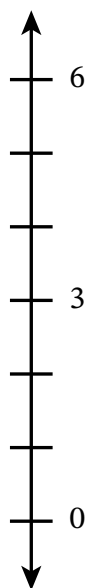
Use the number line to complete problems 1–3.

- The coordinate of point A is _____.
- Point _____ has a coordinate of 4.
- The distance from point A to point C is _____ units.

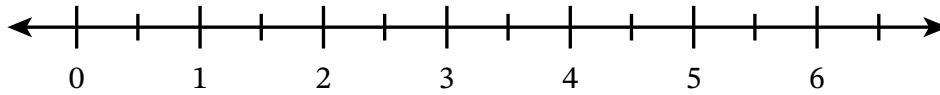


For problems 4 and 5, plot the point on the number line.

- Plot point A so its distance from 0 is 2 units.
- Plot point R so its distance from 0 is $\frac{5}{2}$ units.

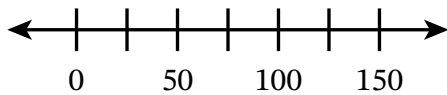


6. Use the number line to complete parts (a)–(c).

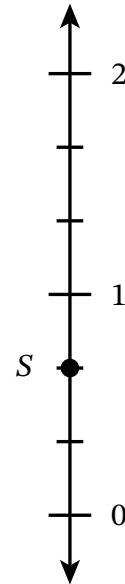


- Plot and label point P at 3.
- Plot and label point R at 0.
- Plot and label point S so that it is $\frac{5}{2}$ units farther from 0 than point P . What is the coordinate of point S ?

7. Plot and label point L so that its distance from 0 is 125 units.



8. Plot point T so that it is $\frac{2}{3}$ units farther from 0 than point S .



9. Construct a coordinate system on the line. Choose an interval length that allows each of the points described to be plotted. Plot and label the points.



- Point A is located 3 units from 0.
- Point B is located at $\frac{2}{3}$.
- Point C is located $1\frac{1}{3}$ units farther from 0 than point B .
- Point D is located $\frac{2}{3}$ units closer to 0 than point A .

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10. Blake asks Sasha to plot a point, P , that is 3 units from point M . Sasha says the coordinate of point P could be 1 or 7. How can Blake make the directions clear so that Sasha knows exactly where to plot point P ? Explain.

