Name _____ Date _____

LESSON 1.2

Practice A

For use with the lesson "Use Segments and Congruence"

Measure the length of the segment to the nearest tenth of a centimeter.

1. 

2. 

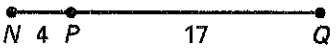
3. 

Find the indicated length.

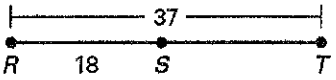
4. Find *GJ*.

5. Find *KM*.

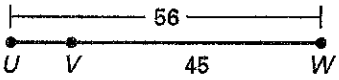
6. Find *NQ*.



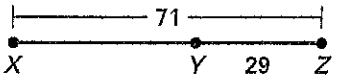
7. Find *ST*.



8. Find *UV*.

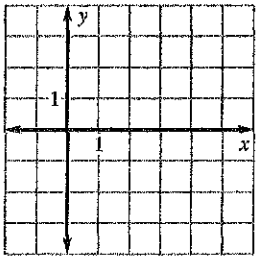


9. Find *XY*.

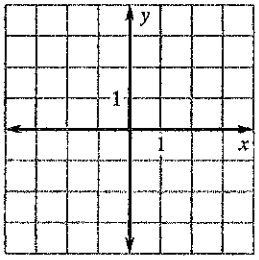


Plot the given points in a coordinate plane. Then determine whether the line segments named are congruent.

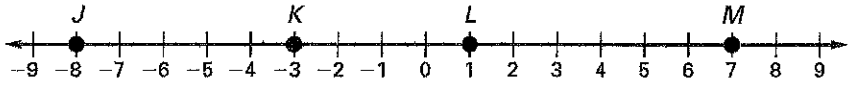
10. $A(2, 2), B(2, -1), C(0, -2), D(3, -2)$; $\overline{AB}$ and $\overline{CD}$



11. $E(-3, 2), F(1, 2), G(2, 3), H(2, -2)$; $\overline{EF}$ and $\overline{GH}$



Use the number line to find the indicated distance.



12. *JK*

13. *KL*

14. *LM*

15. *JL*

16. *JM*

17. *KM*

Name _____ Date _____

LESSON 1.2

Practice A *continued*

For use with the lesson "Use Segments and Congruence"

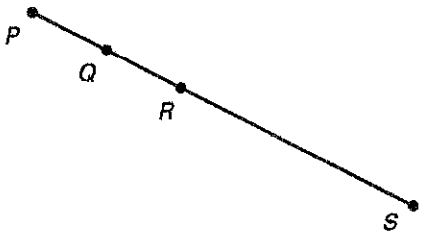
In the diagram, points *P*, *Q*, *R*, and *S* are collinear, *PS* = 46, *PR* = 18, and *PQ* = *QR*. Find the indicated length.

18. PQ

19. QR

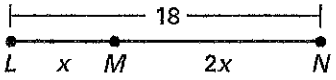
20. QS

21. RS

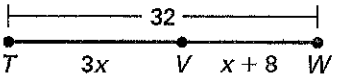


Find the indicated length.

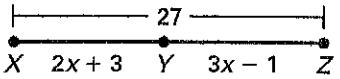
22. Find LM.



23. Find VW.



24. Find YZ.



Point *B* is between *A* and *C* on $\overline{AC}$. Use the given information to write an equation in terms of *x*. Solve the equation. Then find *AB* and *BC*.

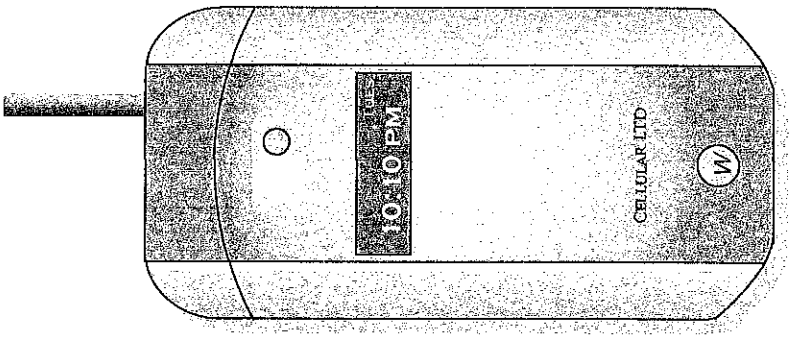
25. $AB = 3x$
$BC = x$
$AC = 20$

26. $AB = 2x - 5$
$BC = 6x$
$AC = 27$

27. $AB = 4x + 7$
$BC = 5x - 8$
$AC = 53$

28. Cellular Phone
Measure the length of the cellular phone (without the antenna) to the nearest $\frac{1}{8}$ inch.

Then measure the length of the antenna to the nearest $\frac{1}{8}$ inch.



29. Highway You are traveling on a highway starting at point A. After you have traveled 63 miles (point B), you see a sign that says it is 87 miles to your destination (point C).

a. Find the total distance you will travel to get to your destination.

b. You are traveling at a constant speed of 60 miles per hour. How many hours will the entire trip take?