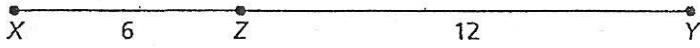
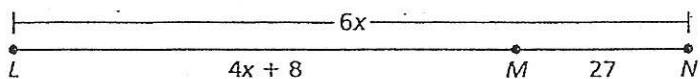


Math 1 - Chapter 8 Review

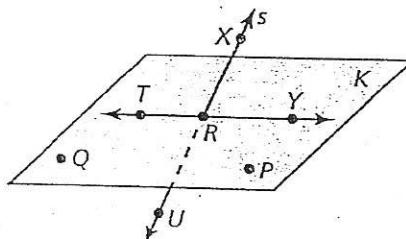
1. Find the length of \overline{XY} . Explain how you found your answer.



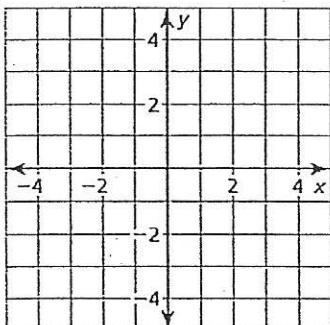
2. Point M is between points L and N on \overline{LN} . $LN = 6x$, $LM = 4x + 8$, and $MN = 27$. Use the information to solve for x , and then find LN .



Use the diagram.



- 3. Give another name for line S .
 - 4. Name three points that are coplanar.
 - 5. Name three points that are collinear.
 - 6. Give another name for plane K .
7. Plot the points in a coordinate plane. Then determine whether \overline{AB} and \overline{CD} are congruent:
 $A(-2, 1)$, $B(2, 1)$, $C(3, 2)$, $D(3, -2)$.

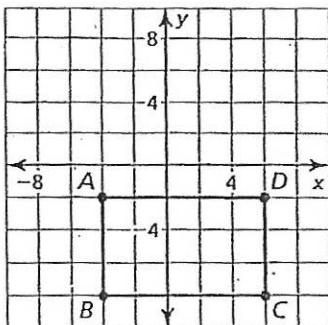


8. The endpoints of \overline{CD} are $C(1, -6)$ and $D(7, 5)$. Find the coordinates of the midpoint M.

9. The midpoint of \overline{RS} is $M(1, 2)$. One endpoint is $R(-6, 6)$. Find the coordinates of endpoint S.

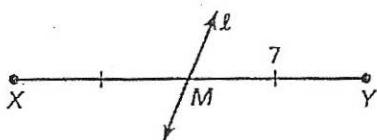
Find the perimeter and area of the figure shown.

10.

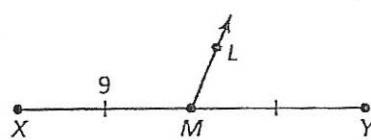


Identify the segment bisector of \overline{XY} . Then find XY .

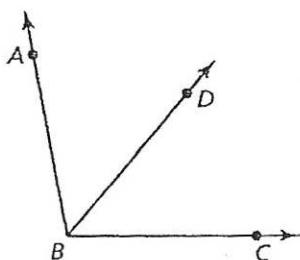
11.



12.



\overline{BD} bisects $\angle ABC$. Use the diagram and the given angle measure to find the indicated angle measures.



13. $m\angle ABD = 57^\circ$. Find $m\angle DBC$ and $m\angle ABC$.

14. $m\angle ABD = 70^\circ$. Find $m\angle DBC$ and $m\angle ABC$.

15. $m\angle ABC = 110^\circ$. Find $m\angle ABD$ and $m\angle DBC$.

Find the angle measure.

16. $\angle B$ is a supplement of $\angle A$ and $m\angle A = 65.2^\circ$. Find $m\angle B$.

17. $\angle B$ is a complement of $\angle A$ and $m\angle A = 65.2^\circ$. Find $m\angle B$.

18. $\angle A$ is a supplement of $\angle B$ and $m\angle B = (3x - 2)^\circ$. Find $m\angle A$.

19. $\angle A$ is a complement of $\angle B$ and $m\angle B = (3x - 2)^\circ$. Find $m\angle A$.

20. Use the distance formula to find the length of \overline{CD} if $C(2, 3)$ and $D(4, -1)$