

Accelerated Geometry B/Algebra II A
Unit 4 Test Study Guide

Name: _____'s favorite game is:

Directions: Find the perimeter of the figure given the points on a coordinate plane.

1. $A(2, 3)$, $B(5, -3)$, $C(2, -3)$

2. $C(0, 3)$, $A(-1, -1)$, $K(4, 2)$, $E(3, -2)$

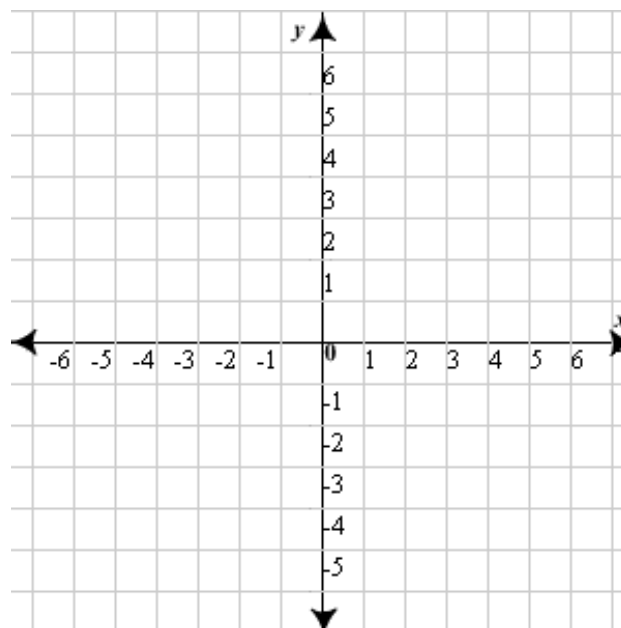
3. $P(5, -1)$, $L(1, 2)$, $U(9, -4)$, $M(4, 4)$

4. $S(0, 3)$, $M(-4, 3)$, $I(2, 5)$, $T(-8, 1)$, $E(6, 2)$

Directions: Find the area of each polygon with the given coordinates.

5. $C(-2, 4)$, $U(-2, 0)$, $P(1, 3)$

6. $K(4, 5)$, $A(3, 4)$, $T(6, 1)$, $S(7, 2)$



7. $M(-1, -5)$, $A(0, -2)$, $T(3, -3)$, $H(2, -6)$

Directions: Find the coordinates that partitions the segment at the given ratio.

8. Partition the line segment \overline{WM} at a ratio of 2:5, where $W(-4, 2)$ and $M(3, 9)$.

9. Partition the directed line segment \overline{GM} at point Q , such that Q lies $\frac{2}{5}$ of the way, given $G(-2, -3)$ and $M(1, 7)$.

10. Find the coordinates of point T that lies $\frac{1}{3}$ of the way on the directed line segment \overline{GA} , where $G(4, 6)$ and $A(5, -1)$.

Directions: Write the equation of the line with the given information.

11. A line parallel to $y=3x+4$ and goes through point $(-1, -2)$.

12. A line perpendicular to $3y+2x=6$ and goes through the point $(3, 3)$.

13. A line parallel to the line that goes through points $(4, 2)$ and $(0, 8)$ and goes through the point $(1, 1)$.

14. A line perpendicular to the line that goes through points $(3, 0)$ and $(-1, -1)$ and goes through point $(4, 1)$.

15. A line perpendicular to the line that passes through $(1, 2)$ $(1, -4)$ and goes through the point $(4, 3)$.

16. A line parallel to the line $4y+3=2x$ and goes through the point $(-2, -5)$.