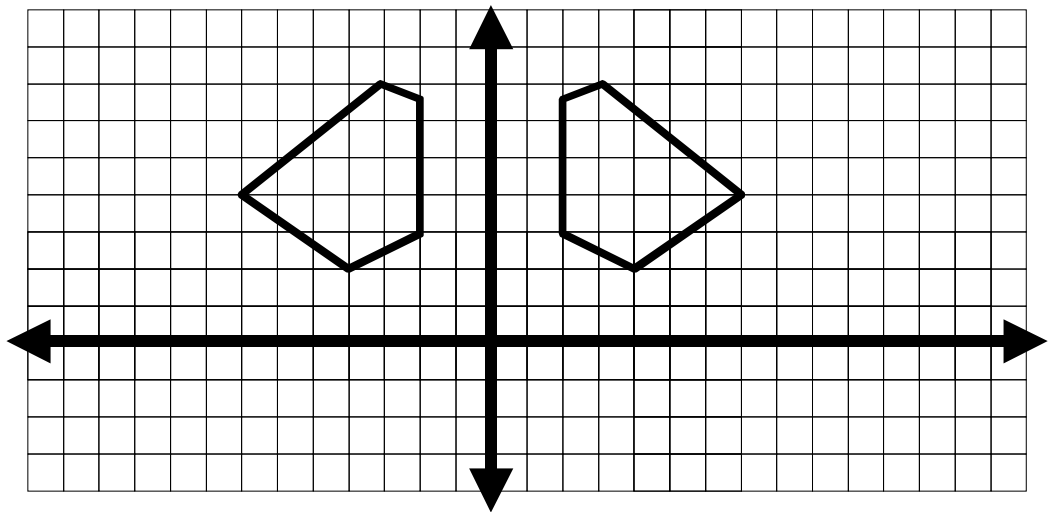


# Geometry Concepts for Middle School (6 - 8)

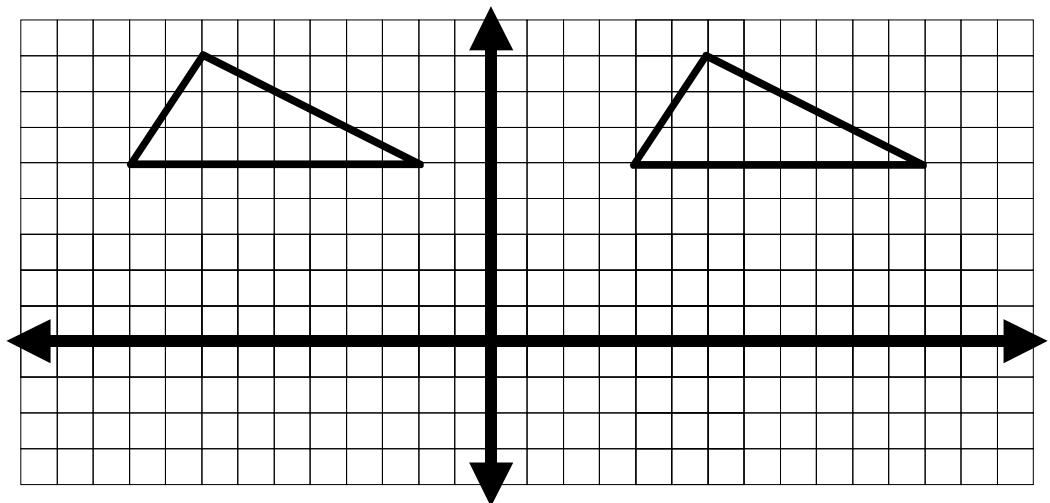
## Answer Key and Scoring Guide

<u>Item</u>	<u>Value</u>	<u>Answer</u>
1.	(1 point)	a and b
2.	(1 - 2 points)	One point for each solution d and e e and a
3.	(1 point)	$60^\circ$
4.	(1 point)	$80^\circ$
5.	(1 point)	$40^\circ$
6.	(1 point)	<b>Objective for scoring-</b> Students demonstrate their understanding of angle measure and ability to use a protractor. <b>Score of 1:</b> Drawing and labeling an acute angle, an angle whose measure is less than $90^\circ$ , correctly.
7.	(1 point)	range of $140^\circ - 145^\circ$
8.	(1 point)	Possible solutions: $\sqrt{32}$ $4\sqrt{2}$ < 5 and > 6 or between 5 and 6
9.	(1 point)	Possible solutions: 4 $\sqrt{16}$
10.	(1 point)	Possible solutions: 10 $\sqrt{100}$
11.	(1 point)	Possible solutions: 24 $\sqrt{576}$
12a.	(1 point)	D
12b.	(1 point)	A, B, C
12c.	(1 point)	A, B, C, E
12d.	(1 point)	none
12e.	(1 point)	C, E
12f.	(1 point)	A, B, C
12g.	(1 point)	C, E

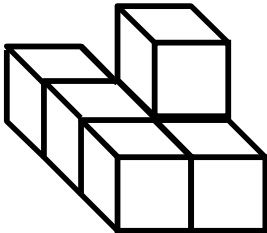
13. (1 point)  $90^\circ$
14. (1 point) 30 cm
15. (1 point)  $55^\circ$
16. (1 point) 24 cm
17. (1 - 2 points) 1 point for each section.  
 $90^\circ$  right
18. (1 - 2 points) 1 point for each section.  
 $180^\circ$  straight
19. (1 - 2 points) 1 point for each section.  
 range of  $5^\circ - 25^\circ$  acute
20. (1 point) **Objective for scoring-** students demonstrate their understanding of transformational geometry on a coordinate plane.



21. (1 point)

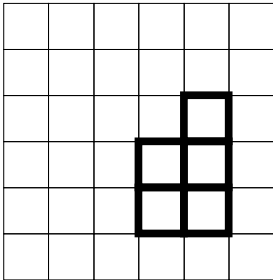


22. (1 point)

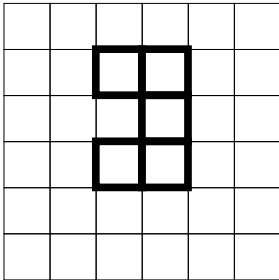


23. (1 point)

Top view



Front View



Side View

