Thank you for your interest.

Here is your sample test made with

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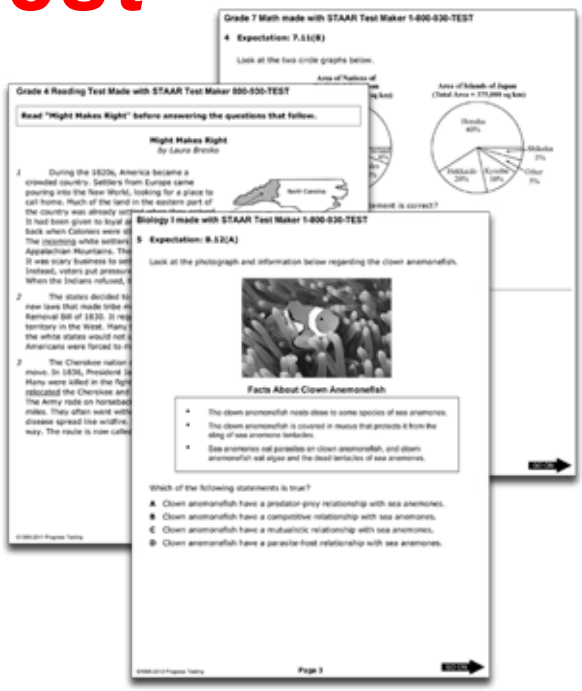
By Progress Testing

About the Sample Test

- *All items written to assess mastery of STAAR-eligible TEKS*
- *Items coded with TEKS, Readiness and Supporting Standards, Process Skill, Webb Cognitive Complexity Levels*
- *All STAAR Item Types included: Multiple Choice, Gridded Response, Constructed Response, and Thousands of High Complexity Items*
- *Items formatted to match official STAAR tests*



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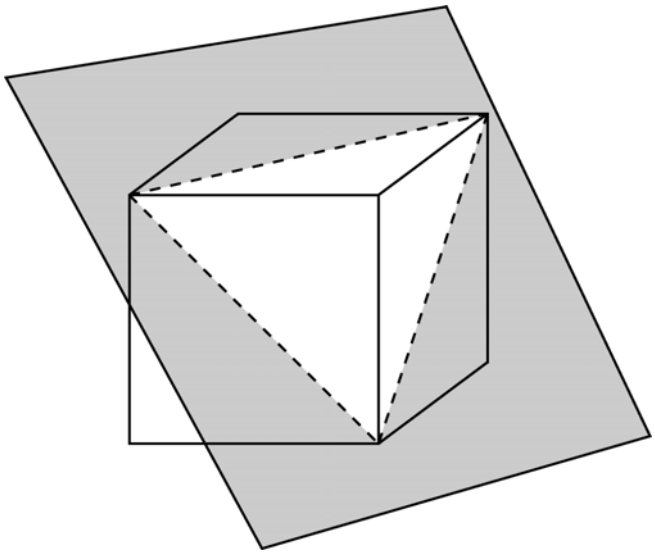
1 Expectation: G.8(D)

For an industrial arts project, Jeremy is going to use a band saw to cut a wooden cube along the plane shown below. The edges of the cube each measure 2 feet.



What is the surface area of the pyramid that Jeremy will cut from the cube?

A $6 + 2\sqrt{3}$ ft.^{2}

B 12 ft.^{2}

C $6 + 4\sqrt{3}$ ft.^{2}

D 14 ft.^{2}

2 Expectation: G.7(B)

Which of the following is an equation of the line that passes through the point $(^-2, 5)$ and is perpendicular to the line with equation $y = \frac{1}{2}x + 5$?

F $y = ^-2x - 9$

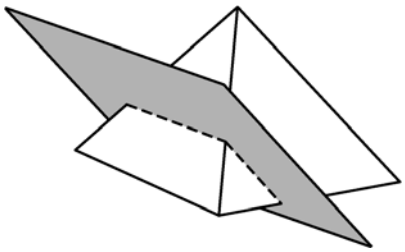
G $y = 2x + 1$

H $y = ^-2x + 1$

J $y = 2x + 9$

3 Expectation: G.6(A)

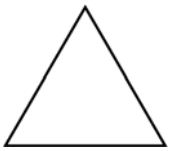
A square pyramid is cut along the shaded plane shown below.



Which of the following is the cross-section of this solid?

A

C



B

D

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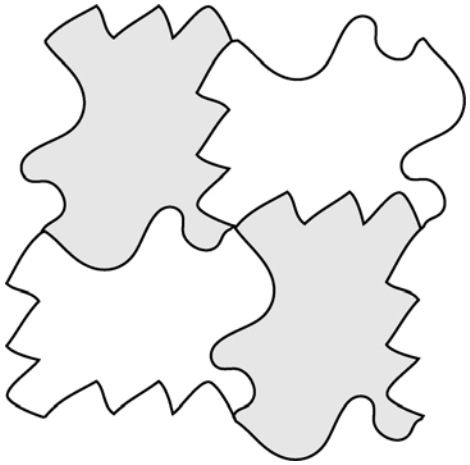
4 Expectation: G.5(C)

Sara created the tiles for the tessellation below by cutting pieces from one side of a square and affixing the pieces back to a different side.



Which transformation will transform one of the white shapes shown to one of the gray shapes shown?

F 90° counterclockwise rotation, then reflection across *y*-axis

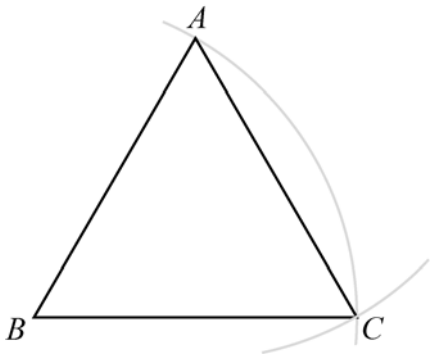
G Reflection across *y*-axis, then 90° counterclockwise rotation

H 90° clockwise rotation, then reflection across *x*-axis

J Reflection across *x*-axis, then 90° counterclockwise rotation

5 Expectation: G.2(B)

Robin used a compass to draw two arcs through the vertices of $\triangle ABC$.



Robin concluded from his drawing that $\triangle ABC$ is equilateral. What must be true for Robin's conclusion to be justified by his drawing?

A Robin centered his compass at the midpoint of $\overline{AC}$ to draw the short arc.

B Robin used a ruler to measure the compass setting for both arcs.

C Robin set the compass at *AB* for one arc and at *AC* for the other.

D Robin used the same compass setting to draw both arcs.

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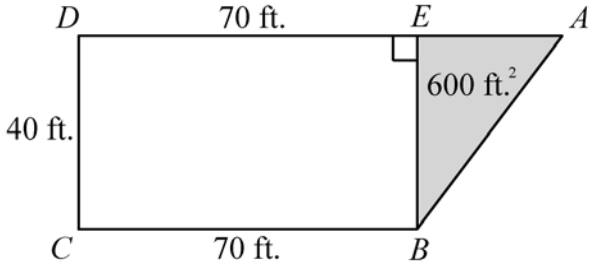
6 Expectation: G.8(A)

The plan of a parcel of land is represented by trapezoid *ABCD* in the accompanying diagram.



If the area of $\triangle ABE$ is 600 square feet, what is the minimum number of feet of fence needed to completely enclose the entire parcel of land, *ABCD*?

	2	6	0				
+	●	●	●	●	●	●	●
-	0	0	●	0	0	0	0
	1	1	1	1	1	1	1
	●	2	2	2	2	2	2
	3	3	3	3	3	3	3
	4	4	4	4	4	4	4
	5	5	5	5	5	5	5
	6	●	6	6	6	6	6
	7	7	7	7	7	7	7
	8	8	8	8	8	8	8
	9	9	9	9	9	9	9

7 Expectation: G.11(D)

A garden is in the shape of a square. The length of one side of the garden is increased by 3 feet, and the length of an adjacent side is increased by 2 feet. The garden now has an area of 72 square feet. What is the measure, in feet, of a side of the original square garden?

	6						
+	●	●	●	●	●	●	●
-	0	0	0	0	0	0	0
	1	1	1	1	1	1	1
	2	2	2	2	2	2	2
	3	3	3	3	3	3	3
	4	4	4	4	4	4	4
	5	5	5	5	5	5	5
	●	6	6	6	6	6	6
	7	7	7	7	7	7	7
	8	8	8	8	8	8	8
	9	9	9	9	9	9	9

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Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Correct Answer
1	4	Readiness	G.8(D)	A
2	3	Readiness	G.7(B)	H
3	3	Supporting	G.6(A)	B
4	2	Supporting	G.5(C)	G
5	1	Readiness	G.2(B)	D
6	4	Readiness	G.8(A)	260
7	5	Readiness	G.11(D)	6

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