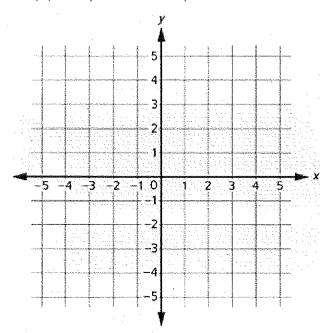
## **Unit 5 Math Test Review**

Name:	#:
Parent Signature (test alert):	
Test is on:	

1.

Use paper and pencil to solve the problem



Plot and label the points G, H, and J on the coordinate grid.

Connect the points to make a triangle.

G (4.4.5)

H (4, -2) J (-3, -2)

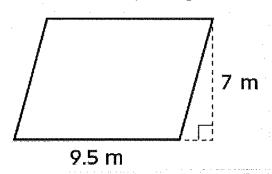
Write a number sentence for calculating the length of each line segment

Length of  $\overline{GH}$  :

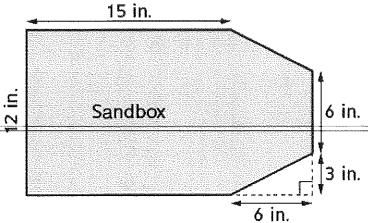
Length of  $\overline{HJ}$  :

2. Find the area of triangle GHI you created in the previous problem. \_\_\_\_\_ square units

3. Find the area of the parallelogram.



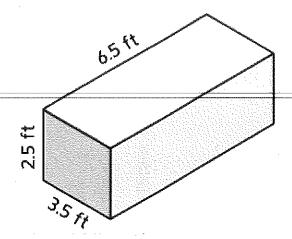
Find the area of the sandbox play area in the park shown below. Explain how you solved the problem.

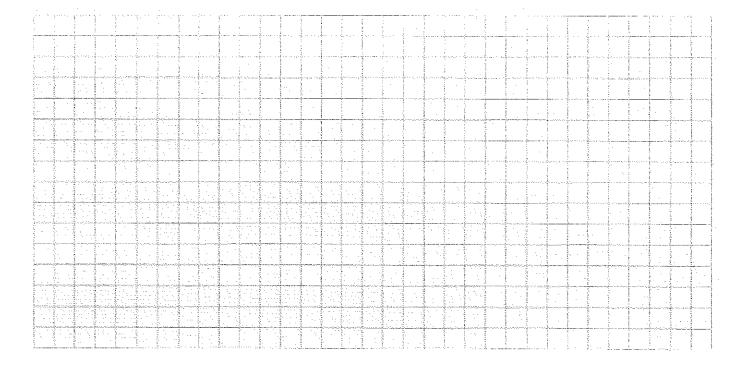


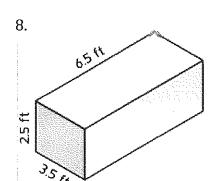
6 in. Area of the sandbox play area: Explanation: 5. a. Identify the units you might use when reporting surface area. m<sup>2</sup> mЗ cm<sup>2</sup> yd b. Describe a common feature of these units for surface area. c. Explain why they have this feature in common. 6. Identify the units you might use when reporting volume.  $m^2$ m<sup>3</sup> cm<sup>3</sup> cm<sup>2</sup> yd m cm

Use paper and pencil to solve the problem.

Draw a net for the block in the picture. The block is shaped like a rectangular prism. Use the scale: 1 block = 1 ft<sup>2</sup>







Mrs. Washington painted all faces of the above block blue.

Explain how she could find the total surface area of the block she painted.

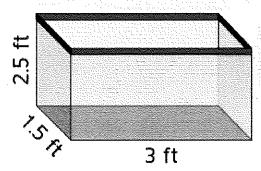
Then, find the surface area of the block.

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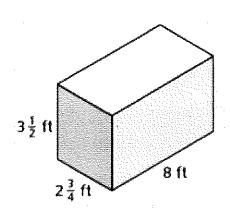
9.

If the fish tank were filled to the top, how many cubic feet of water would it hold?



Volume: \_\_\_ ft<sup>3</sup>

10.



a. What is the volume of the prism?

\_\_\_ft<sup>3</sup>

**b.** How many cubes with  $\frac{1}{4}$  -foot side lengths will fit inside the prism if they are packed with no gaps?

\_\_ cubes

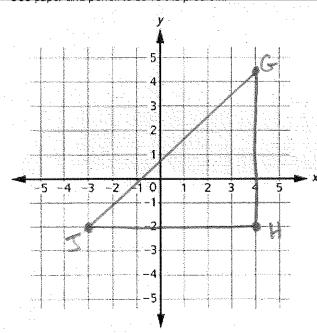
## **Unit 5 Math Test Review**

Name: Parent Signature (test alert):

Test is on:

1.

Use paper and pencil to solve the problem.



Recreate the coordinate grid shown to the left.

Plean plot and label the points G, H, and J on the coordinate grid.

Connect the points to make a triangle.

$$J(-3, -2)$$

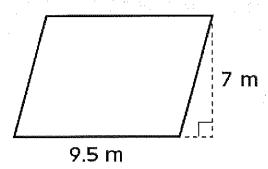
Write a number sentence for calculating the length of each line segment

Length of 
$$\overline{GH}$$
:  $|-2|+4.5 = 6.5$ 

Length of 
$$\overline{HJ}$$
:  $-3+4=7$ 

2. Find the area of triangle GHI you created in the previous problem.  $\frac{22.75}{2}$  square units 3.

Find the area of the parallelogram.



0=9.5×7

Find the area of the sandbox play area in the park shown below. Explain how you solved the problem.

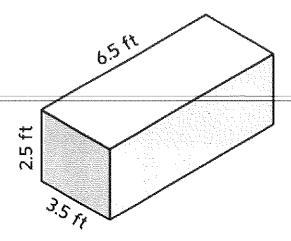
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, i	Sandbox	6 in.			est de la companya de	25.2 18. (6.41)
		3 in.		361		239)
Area	6 in.			i Quanto		
Expl	anation: I Made one	lan		i dana	<i>&amp; 2</i>	al And
12	e total area. I o	<u> </u>		1/201		
1	ingles to ben the			10	S. C. C. Commission of the Com	and ofe
5. <b>a</b> . ld	entify the units you might use when reporting surfa	ce area.	· Aller		v.	
/m <sup>2</sup>	$m^3$ $m$ $m^2$ $m$	3	cm	$\left( yd^{2}\right)$	yd <sup>3</sup>	yd
b. D	escribe a common feature of these units for surface	e area. 🌱	Ly W		45 1	guel.
	xplain why they have this feature in common.					
	They will always have	Ahis	`		439x	MARCON .
	because you nottiply	two	lens	15	bjeth	
6.						

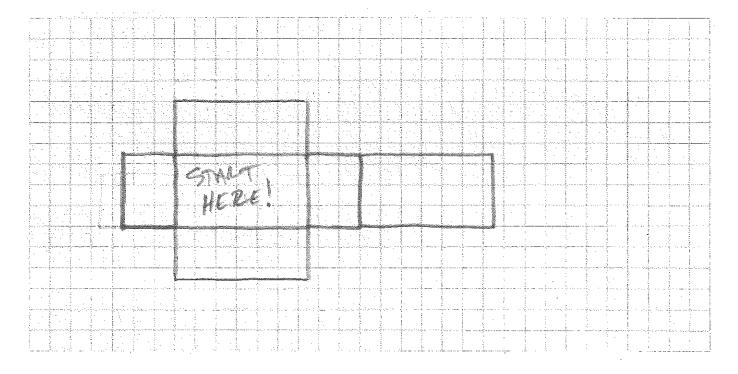
Identify the units you might use when reporting volume.

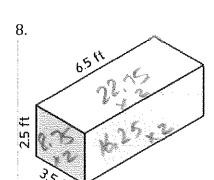
yd<sup>3</sup>  $m^2$ cm<sup>3</sup> cm<sup>2</sup> yd<sup>2</sup> yd m cm

Use paper and pencil to solve the problem.

Draw a net for the block in the picture. The block is shaped like a rectangular prism. Use the scale: 1 block = 1 ft<sup>2</sup>







Mrs. Washington painted all faces of the above block blue.

Explain how she could find the total surface area of the block she painted.

Then, find the surface area of the block.

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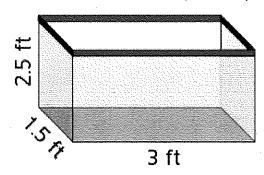
of the block and old the areas.

325+ M5+45,5 = 95.5

Surface Area:

9.

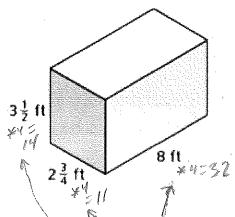
If the fish tank were filled to the top, how many cubic feet of water would it hold?



Volume: \_\_ft<sup>3</sup>

V= bul-V= 3 x 1.5 x 1.5 = 11.2 x 41.3

10.



a. What is the volume of the prism?

ft<sup>3</sup>

V= bule 8×2.75×3.5 = 77.4+3

b. How many cubes with  $\frac{1}{4}$  -foot side lengths will fit inside the prism if they are packed with no gaps?

∕<u>/</u> cubes

14×11×32 = 4928