Herbert goes to Ice Cream Land

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One sunny day in June, Herbert the unicorn was extremely hungry. Realizing he could not ease his cravings for something sweet, Herbert hurried to Ice Cream Land. His stomach rumbled like a swirling ball of gumballs. Herbert's mouth watered at the thought of stuffing himself with delightful, scrumptious treats. " A land of sweets and goodies, and more sweets and more goodies," Herbert awed. Then Herbert took off on his adventure.

Herbert was a creative and talented unicorn. Songs were the only things responsible for helping Herbert pass Unicornific School. He enjoyed these types of fun tunes a lot. Sometimes, it is very difficult to get these melodies out of his head. For some odd reason. Herbert had one of these songs stuck in his head. (Sing along! It goes to the tune of *Mary Had A Little Lamb.)*

Area of a square *(Mary had a little lamb)*
Of a rectangle *(little lamb)*
Of a rhombus *(little lamb)*
Area of a square *(Mary had a little lamb)*
Equals base times height *(Its fleece was white as snow)*

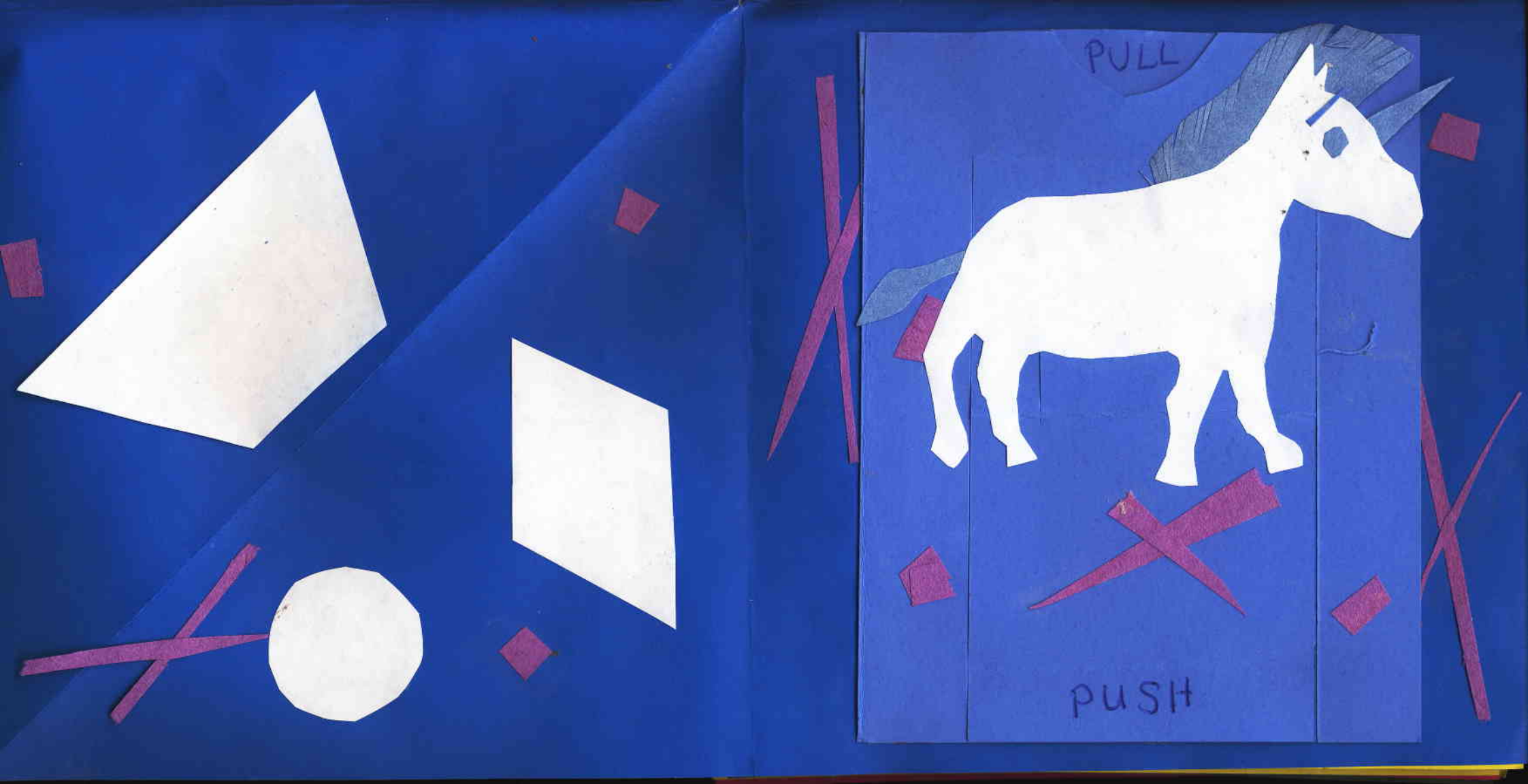

PULL
PUSH quickly,
he's dancing

JUNE

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

After minutes of prancing and singing, Herbert arrived in an immense world of delicious, heart-warming treats; Ice Cream Land. Here, he passed by a gumdrop shop, and noticed a calendar on the display window. Herbert, being a curious little unicorn, wanted to see if his song was true. So, he counted the squares on the calendar. The calendar had a base of 7 squares and a height of 5 squares. Then he decided to find the area of the calendar by counting the number of squares present in the calendar. The total was 35 square units. Herbert, a quite intelligent little unicorn, noticed a similarity between the product of the base and the height of the rectangular calendar and its area. The product of 7 and 5 is 35, which is equal to the area of the calendar. Meaning the area of a rectangle, a quadrilateral with 2 sets of parallel lines and 4 right angles, is equal to the product of its base and its height. Gumdrops weren't what Herbert was craving for, so he galloped away towards the cake shop.

When he arrived at the cake shop, he could smell the sweet scent of chocolaty goodness, which lured him to the counter. "What would you like young horse?" asked the Moose at the register. " I am not a horse!" exclaimed Herbert. " I am a precious unicorn, " he bragged. "What would you like precious unicorn?" asked the Moose. " Chocolate Moose, " Herbert snarled. " In what container?" asked the Moose. Still looking at the menu, Herbert did not reply. He noticed Chocolate Moose was severed in a few types of containers, all costing the same price. Herbert, not wanting to waste his valuable unicornific bucks, decided to find the most efficient container. So, he asked to see all the possible containers he could chose from.


PULL
PUSH

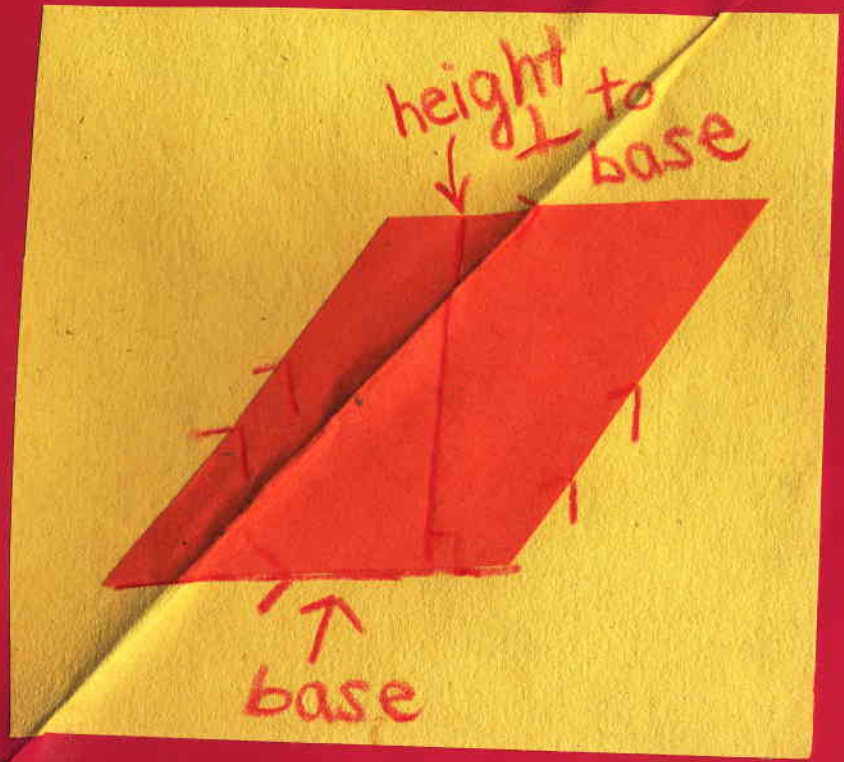
m (H)
= Area of
Trapezoid

PUSH

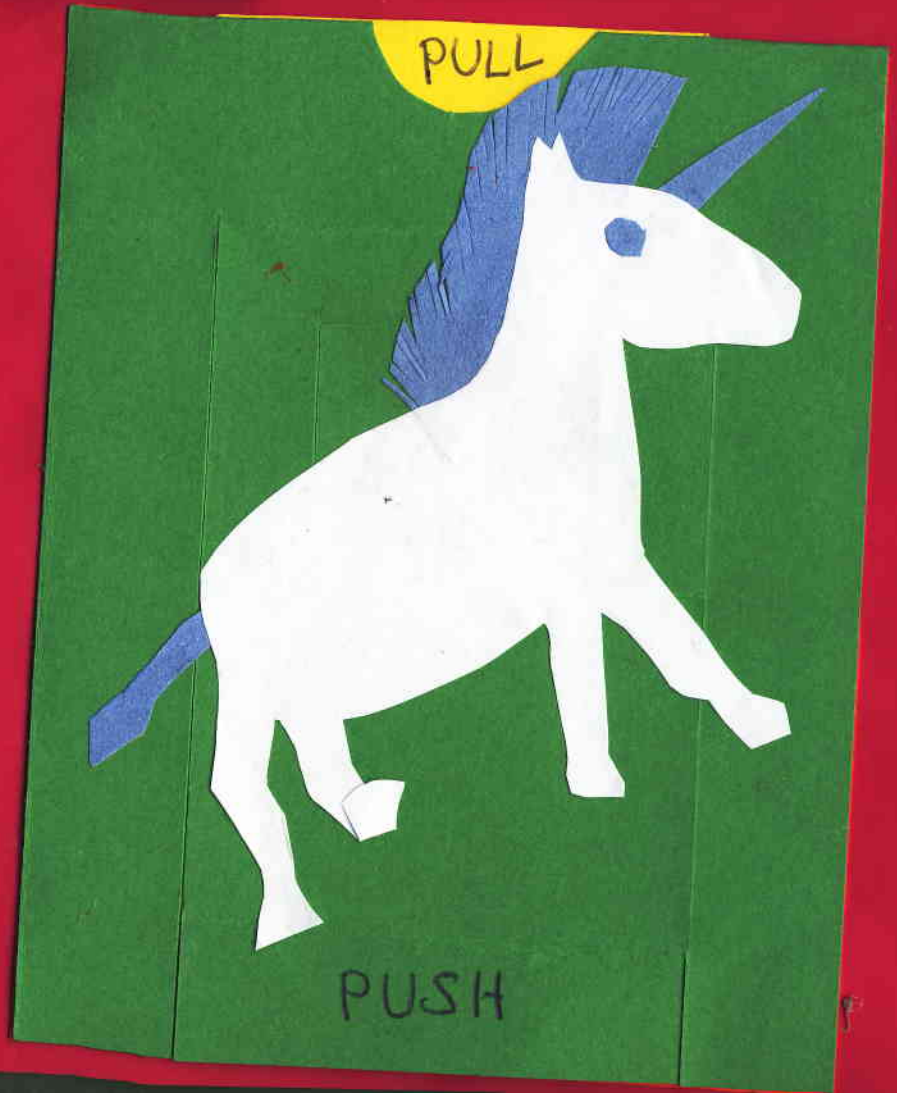
Herbert knew to find the area of these shapes was going to be a challenge. One container was shaped like a trapezoid with a line splitting the 2 non-parallel lines in half. Intelligent, little Herbert knew that this line was no ordinary line; it was a median because it bisected the 2 non-parallel sides. Herbert then measured the median of the trapezoid with his magical horn, which he used as a ruler. Every dash was one unit. The median measured 6 units. Herbert then measured the height of the trapezoid because the product of the median and the height of a trapezoid equal the area. So, he made a right angle with his magical horn and the upper base of the trapezoid. It measured 5 units. So Herbert knew the area was 30 units^2.

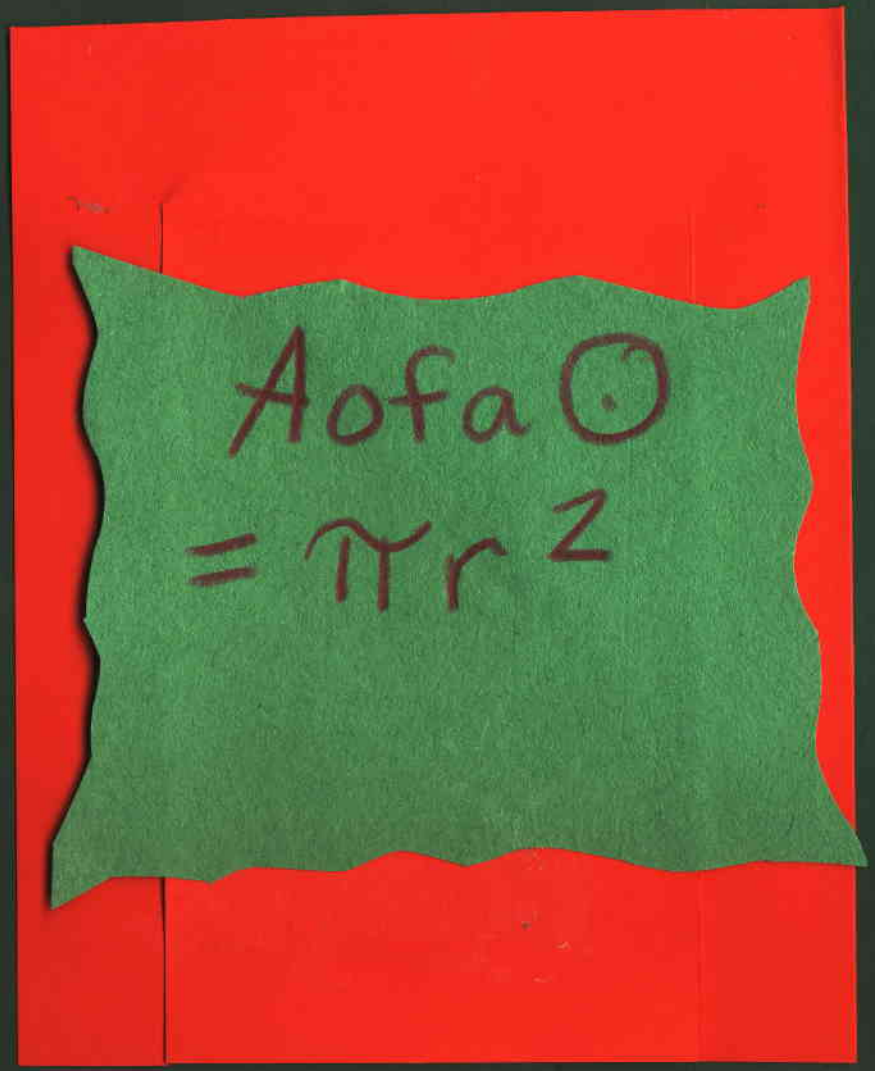
B × H
= Area of

PUSH



The other container was a parallelogram, meaning the 2 opposite sides were parallel. Herbert used his magical horn to calculate the area of the parallelogram-shaped container. Knowing the height was perpendicular to the base, Herbert then determined the height of this quadrilateral. To do this, Herbert measured the distance from the top to the bottom with his magical horn, which was perpendicular to the base; it measured 4 units. Then Herbert used his horn to measure the base of the parallelogram; resulting in 3 units. The product of these 2 numbers was 12. So, the area of the parallelogram was 12 units^2.




Aofa ⊙
= πr²

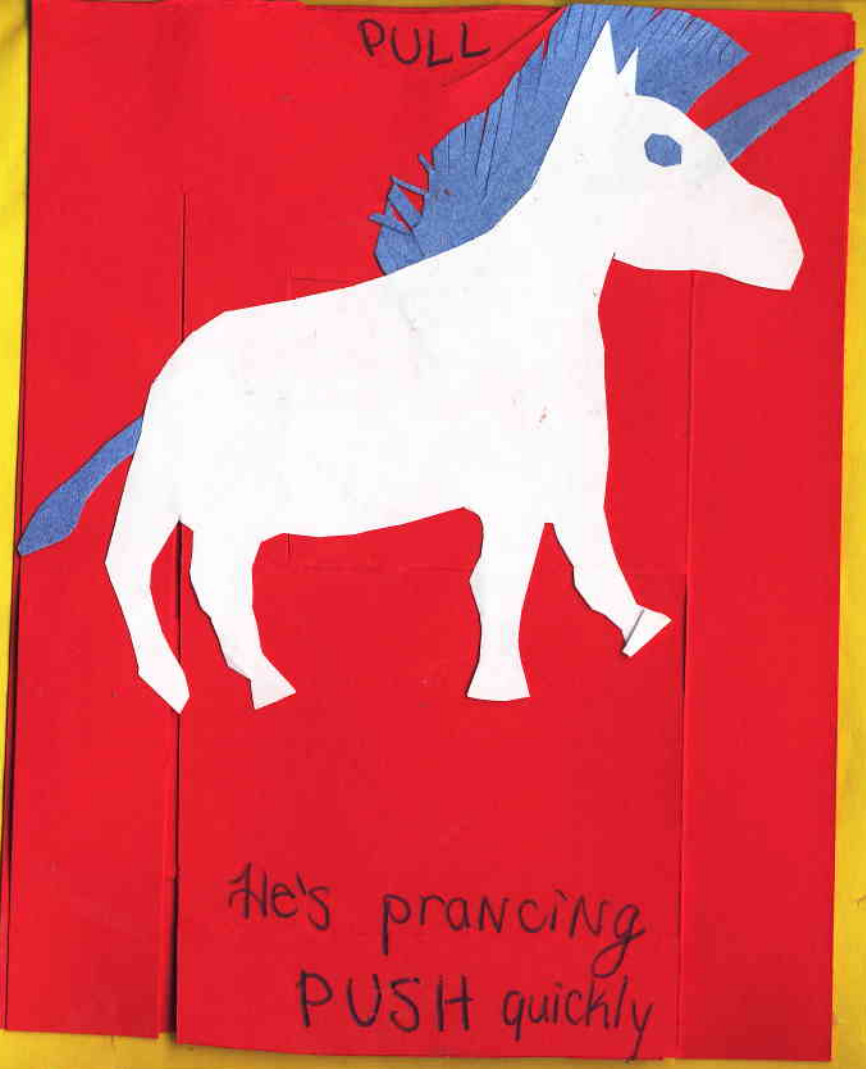
Then the Moose handed him the last container; a circle. "Oh unicornific bucks!"Herbert whined. "finding the area of this container is going to be very, very difficult. Herbert then measured the distance from the center of the circle to the edge of the circle. "The radius of the circle is1!" exclaimed Herbert."What difference does that make?" asked the Moose.

"If the radius of the circle is 1," explained Herbert,"then the area of the circle equals Pi. The product of the radius squared and Pi equalthe area of a any circle." Meaning, the area of this particular circle is 3.14 units squared.

Knowing this final solution, Herbert now knew that the area of the trapezoid was the greatest. "What container would you like your chocolate moose in?" asked the Moose. Not being quite fond of the Moose Moose, Herbert replied,"I don't think chocolate moose is something I'm craving for at this momment but thanks for asking." "All that work for nothing," Herbert whined. Geometry always makes unicorns hungry. By this time, Hert was starving! Herbert then hurried away because he needed to get to the Ice Cream Parlor before it closed.


PULL
PUSH

After 10 minutes of prancing and parading around, Herbert finally arrived at the Ice Cream Parlor. The dragon at the counter asked Herbert what he wanted. Herbert was stunned so, he did not reply. Herbert was stunned not because of the terrifying creature that was standing in front of him, but because he did not know what cone to choose.



CONES

$A = \frac{2*6}{2} = 6 \text{ units}^2$

$A = \frac{4*5}{2} = 10 \text{ units}^2$

On the menu, there were drawings of his 2 choices. one cone was 2 by 6 and the other cone was 4 by 5. Herbert then calculated the area of the two triangles on the menu by finding the product of its base and hieght and then dividing it by 2.Herbert, the unicorn, then knew that the 4 by 5 cone was slightly larger than the other cone , so he chose that one. Because the dragon was very impressed with Herbert's mathematical knowledge, the dragon gave Herbert 2 scoops of watever flavored ice cream he wanted. "What flavor would you like?' asked the dragon. "Pi flavored!" replied Herbert. Herbert thanked him and started galloping away. " I was all wrong about that dragon," thought Herbert as he was waving goodbye. He couldn't wait to tell his friends all that he had learned while going to Ice Cream Land!

TO BE CONTINUED.....