

RAFFLE #1

Worksheet #1

Raffle Holder #1

Your school is holding a raffle to win a new 65" TV! The numbers have been called out and you think you might have won! Unfortunately, the numbers on the tickets got worn out so you have no way of knowing if you actually have the number. You need to talk with a raffle master in order to figure out if you have a winning ticket. **The number called out was 189.**



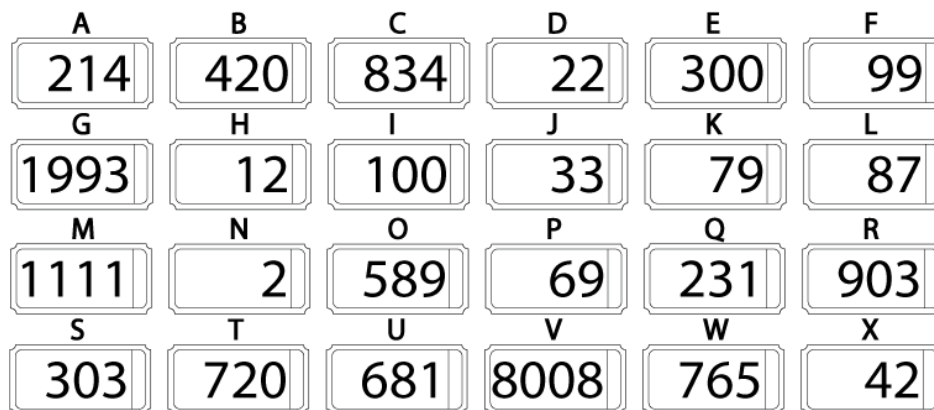
Instructions: Find the winning ticket! Guess a letter and ask your partner (the raffle master) what number is on that ticket. Record the order of your guesses in the box below. When you have found the winning ticket, record the number of guesses. Then you will become raffle master!

Guess #	Ticket						
1		7		13		19	
2		8		14		20	
3		9		15		21	
4		10		16		22	
5		11		17		23	
6		12		18		24	

Number of Guesses: _____

Raffle Master #2 (PlayStation!)

Be sure your partner can't see these numbers.



Raffle Master #1 (65" TV!)

Be sure your partner can't see these numbers.

A 653	B 98	C 426	D 799	E 32	F 974
G 1348	H 89	I 731	J 26	K 79	L 87
M 467	N 7	O 294	P 42	Q 9000	R 369
S 963	T 360	U 189	V 365	W 765	X 69

Raffle Holder #2

Your school is holding a raffle to win a new PlayStation! The numbers have been called out and you think you might have won!

Unfortunately, the numbers on the tickets got worn out so you have no way of knowing if you actually have the number. You need to talk with a raffle master in order to figure out if you have a winning ticket. **The number called out was 303.**

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	Z

Instructions: Find the winning ticket! Guess a letter and ask your partner (the raffle master) what number is on that ticket. Record the order of your guesses in the box below. When you have found the winning ticket, record the number of guesses.

Guess #	Ticket					
1		7		13		19
2		8		14		20
3		9		15		21
4		10		16		22
5		11		17		23
6		12		18		24

Number of Guesses: _____

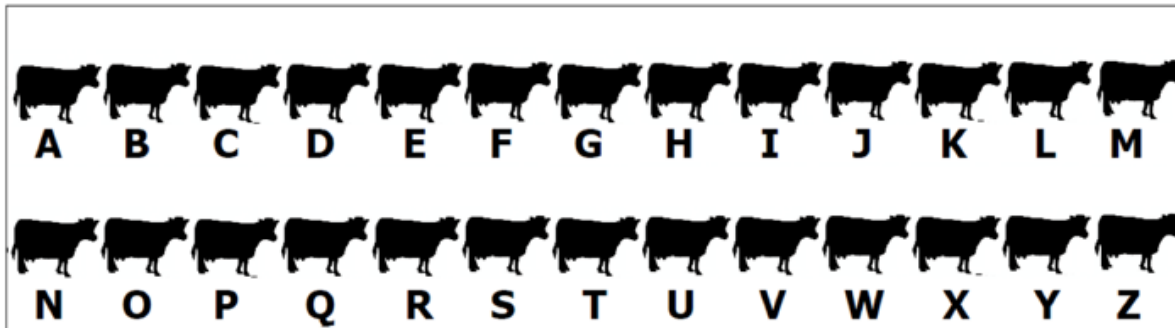
Worksheet #2

DAY 1: DAFFODAI

Day 1 - Save Daffodai's Cows:

Your livestock were lazily grazing in the pasture *when one cow was suddenly attacked by a dragon*. Your magic ball says the dragon is attacking **the cow that weighs 246 pounds** but you don't know which cow that is.

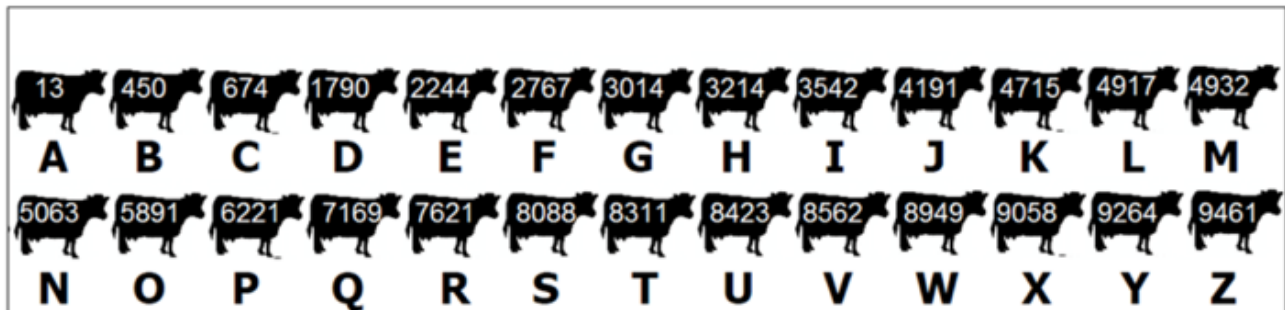
Instructions: If you can find the dragon in **5 guesses or less**, you can save all the cows. Your neighbor (partner) has a list of cows, *in order by weight*. Your task: guess a letter and ask your partner how much that cow weighs. Record your guesses below. Stop when you find the cow that is being attacked (luckily just looking at the dragon scares it... so all you need to do is find the cow!)



Guess #	Cow	Guess #	Cow	Guess #	Cow	Guess #	Cow	Guess #	Cow
1		2		3		4		5	

Day 2:

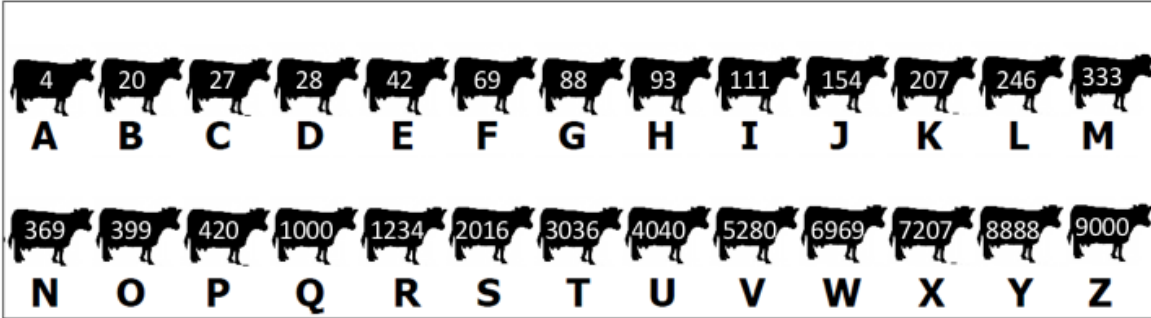
You have the list of cows for Draconia, and will help your partner during the second day of dragon attacks.



DAY 2 DRACONIA

Day 1:

Help your neighbor in Daffodai save the cows! When asked, tell your partner how much the cow weighs.



Day 2 Save Draconia's cows:

You thought your cows were safe but the Dragons are back! A *second* cow has been attacked by a dragon. Your trusty magic ball tells you the dragon is attacking **the cow that weighs 7621 pounds**.

Instructions:

By now you know the drill. Your partner has the list of cows *in order by weight*. Find the dragon in 5 guesses or less to save all the cows! Record your guesses in the table below.



Guess #	Cow	Guess #	Cow	Guess #	Cow	Guess #	Cow	Guess #	Cow
1		2		3		4		5	

Dragons and Cows Discussion Questions

Describe the best strategy to find the cow:

What is the most amount of guesses it will take to find the cow using your strategy?