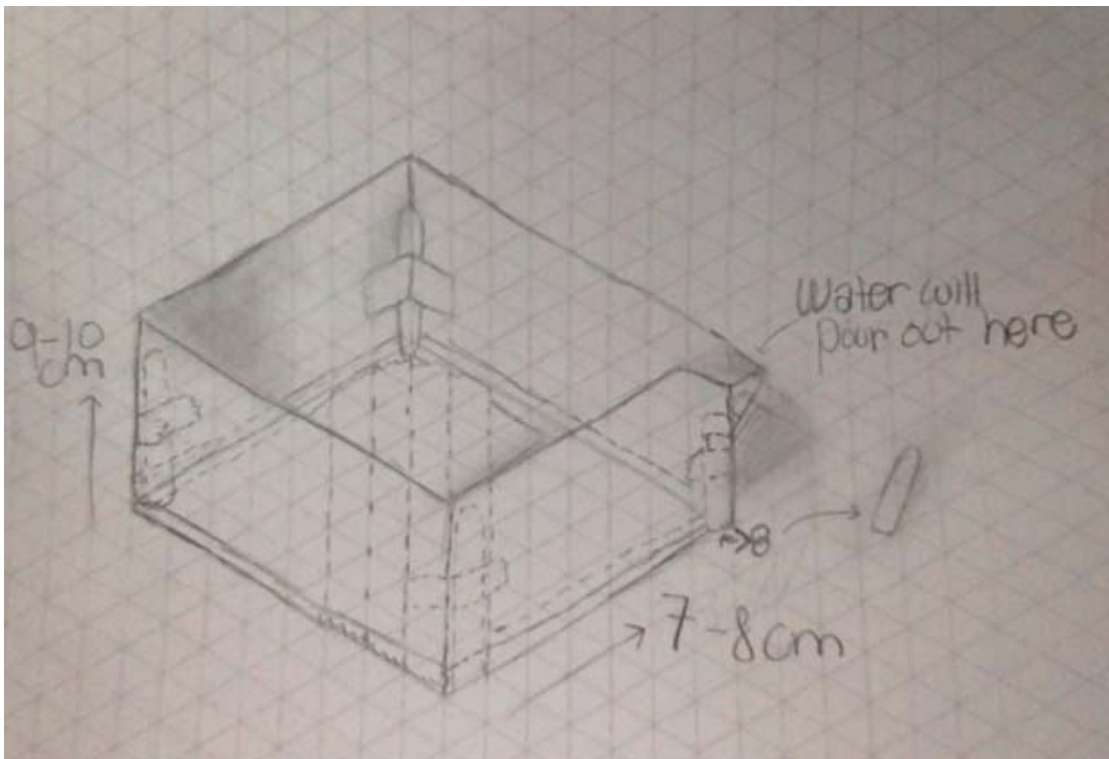
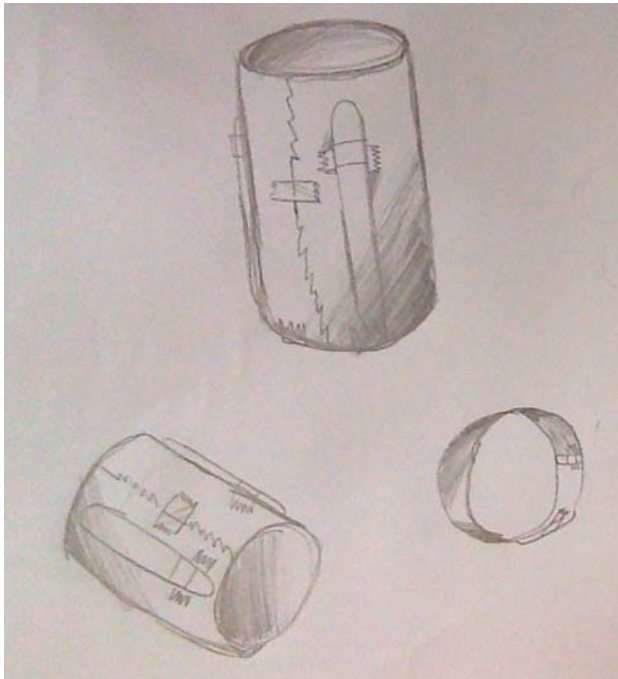
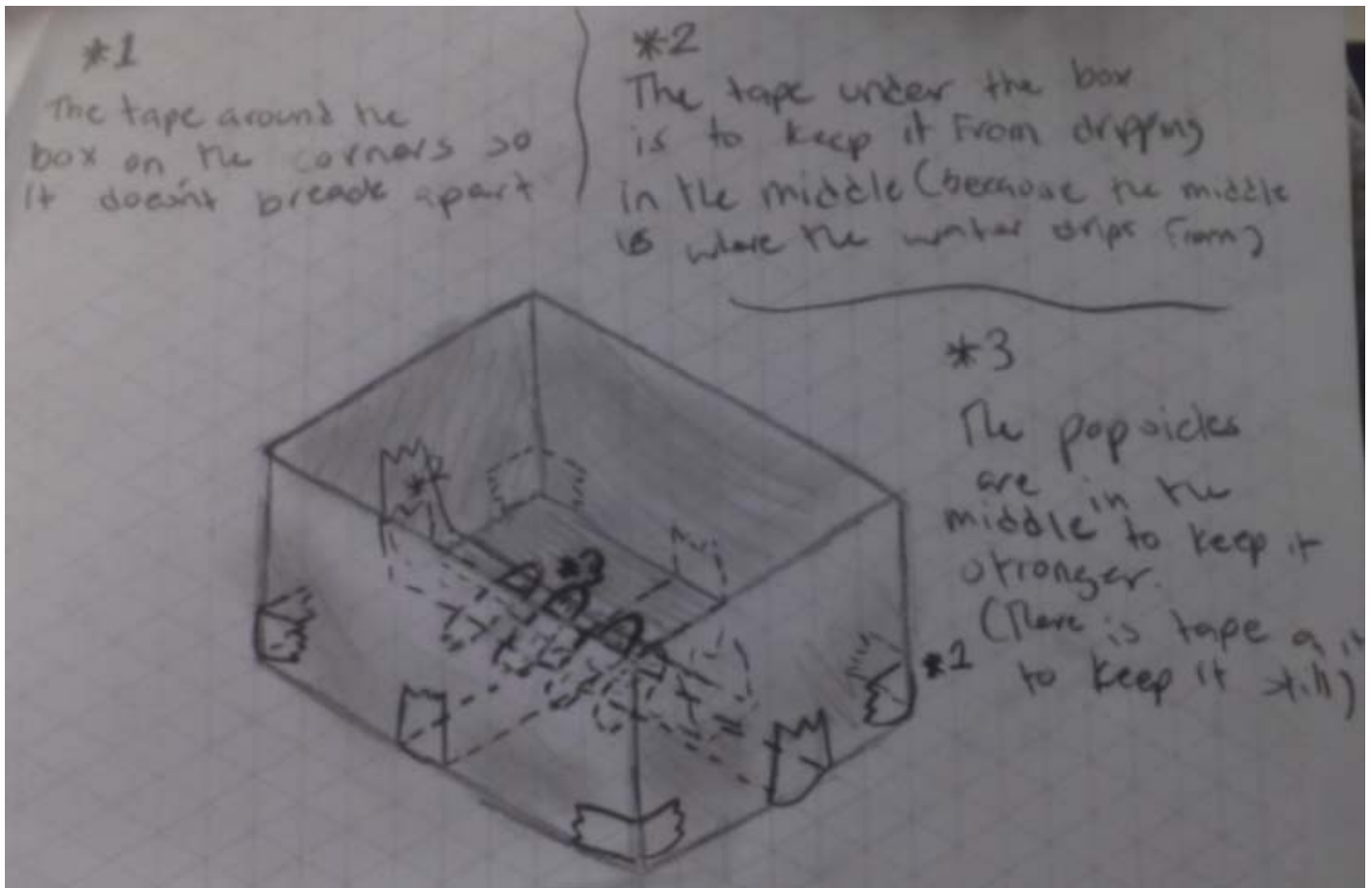
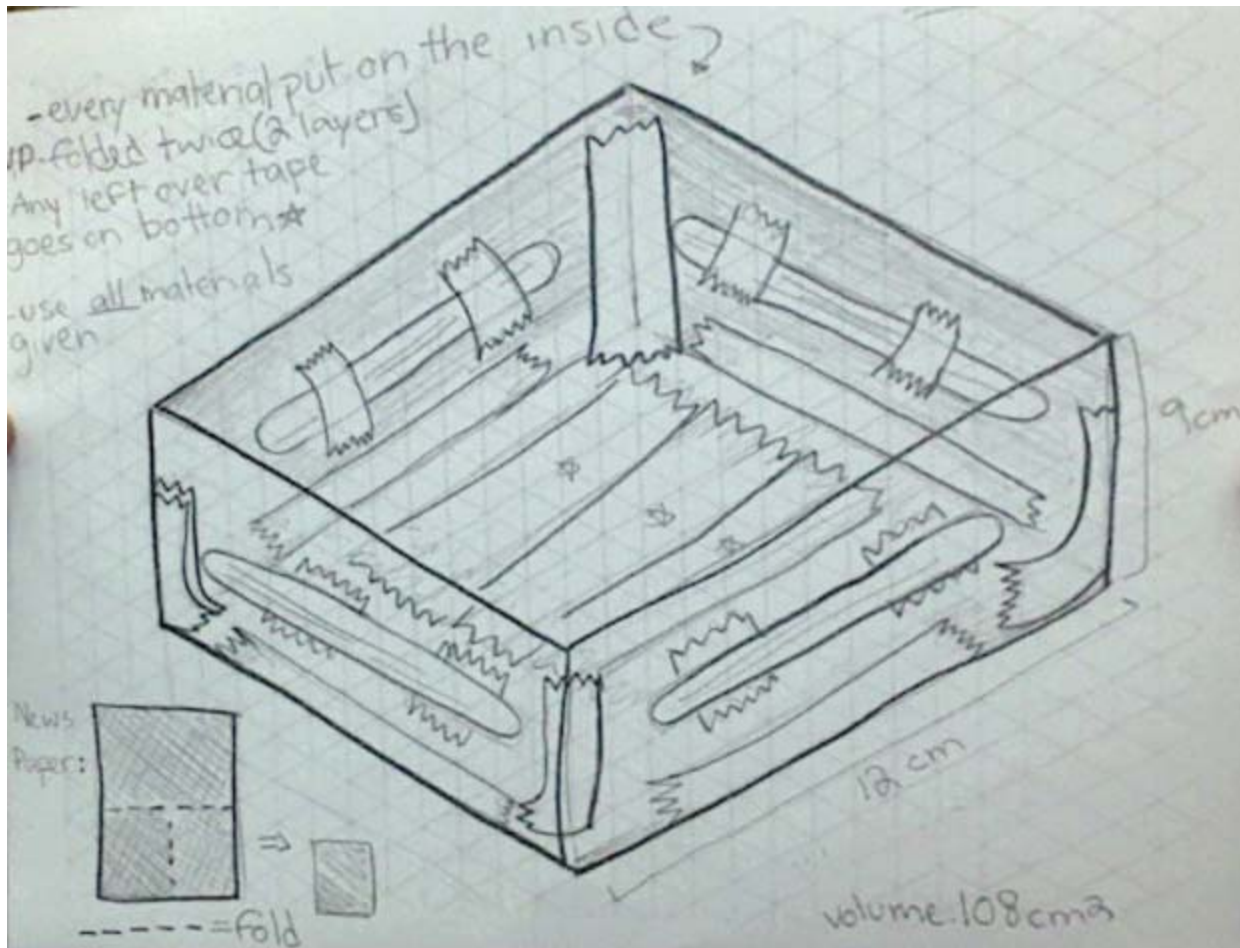
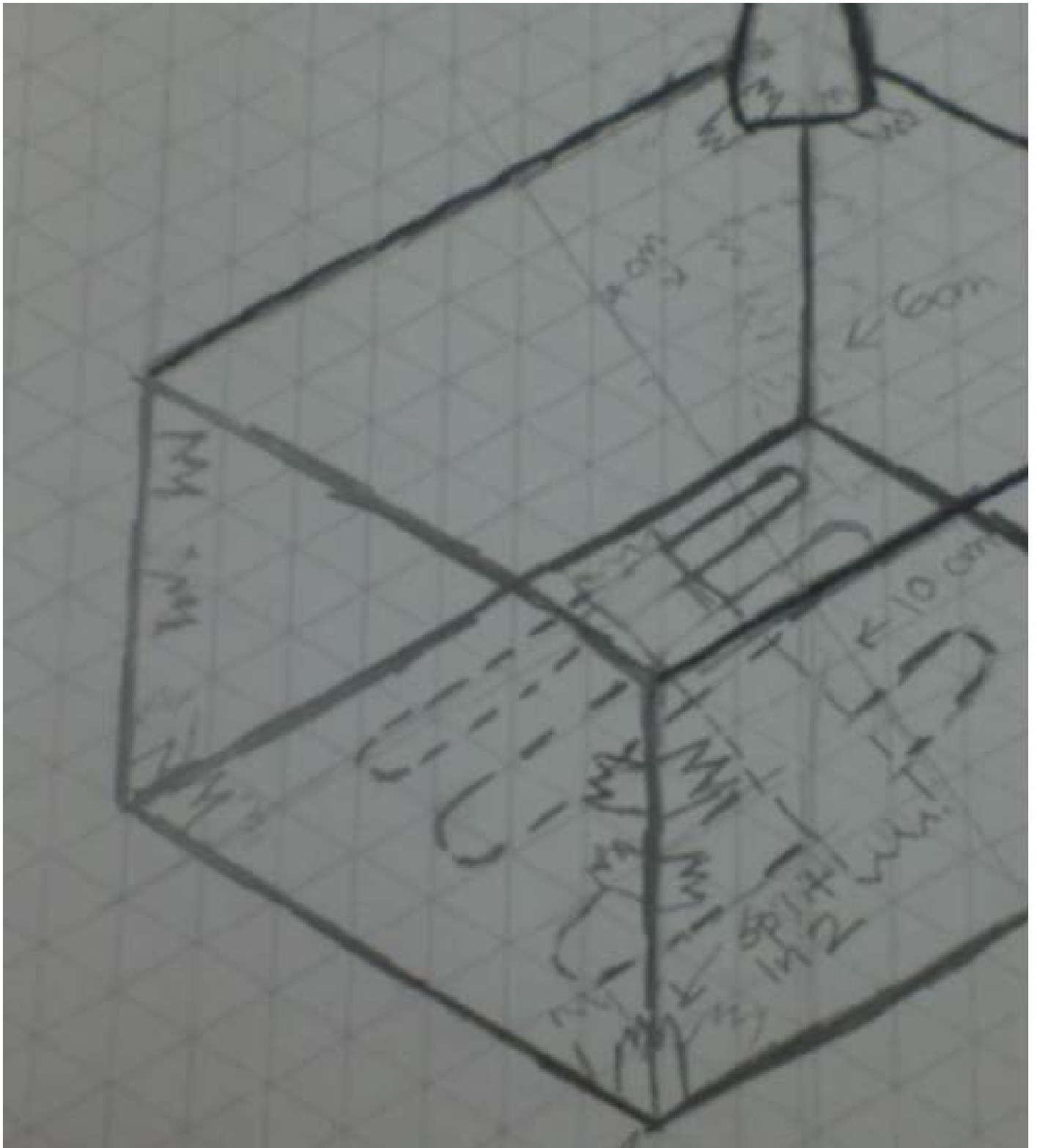


Newspaper Water Tank Idea Sketches, Tank Builds and Test Data









Test Data - November 2017

A-M1

A-M1 OUT 2017	TABLE 1 A-M1	TABLE 2 A-M1	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8
TANK MASS (grams)	13.7	15.4	14.8	7.1	15.7	8.8	13.2	13.2
ML H ₂ O out Hypothesis?	150	100	170	80	140	130	150	
ML H ₂ O out Actual!	150!	83	77	131	151	83	133	oops
Score $\frac{ML_{out}}{mass}$	10.95	5.39	5.20	18.45	9.62	9.43	10.08	
Notes								

C-M3

<u>C-M3</u>	TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8
TANK MASS (grams)	20.3	13.4	17.1	21.4	9.4	20.5	18.8	18.1
mL H ₂ O out Hypothesis	140	120	160	175	90	140	140	93.0
mL H ₂ O out Actual	75	170	135	130	59	169	145	147
Score $\frac{m_{\text{out}}}{m_{\text{mass}}} =$	3.69	12.69	7.89	6.07	6.28	8.24	7.71	8.12
Notes								

D-M5

	D-M5 Table 1	Table 2	Table 3	Tab. 4	Tab. 5	Tab. 6	Tab. 7	Tab. 8
Tank Mass (g)	10.5	153	6.5	17.4	13.4	16.0	8.3	17.2
ML H₂O? <small>Hypothesis</small>	175	180	130	125	123	150	165	160
ML H₂O <small>ACTUAL</small>	164	116	69	150	156	151	164	137
Score ML out MASS	15.62	7.58	10.62	8.62	11.64	9.44	19.76	7.96
Notes		Some water spilled - tank burst						

F-T1								
F-T1	T1	T2	T3	T4	T5	T6	T7	T8
Tank mass g	14.6	12.1	12.1	17.2	6.8	11.2	15.0	14.9
mL H ₂ O out Hypoth.		160	165	150	115	130	150	130
mL H ₂ O out ACTUAL	164	128	36	117	36	158	33	12
mL/g Score	11.23	10.59	2.98	6.80	5.29	14.11	2.20	0.86
Notes								



H-T3	T1	T2	T3	T4	T5	T6	T7	T8
Tank Mass g	13.1	17.6	11.0	16.3	6.9	3.0	15.5	8.5
mL H ₂ O out Hypoth	160	175	125	140	80	160	90	150
mL H ₂ O out Actual!	99	0.5	144	145	134	166	115	130
Score mL g! Notes	7.56	0.03	13.1	8.9	19.4	55.3	7.42	15.3



Tank Builds November 2017





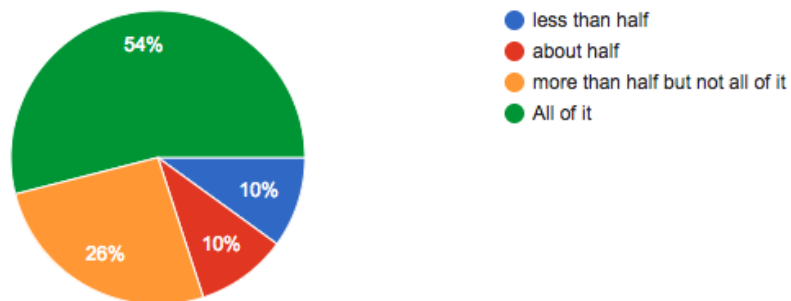




Test Data November 2017

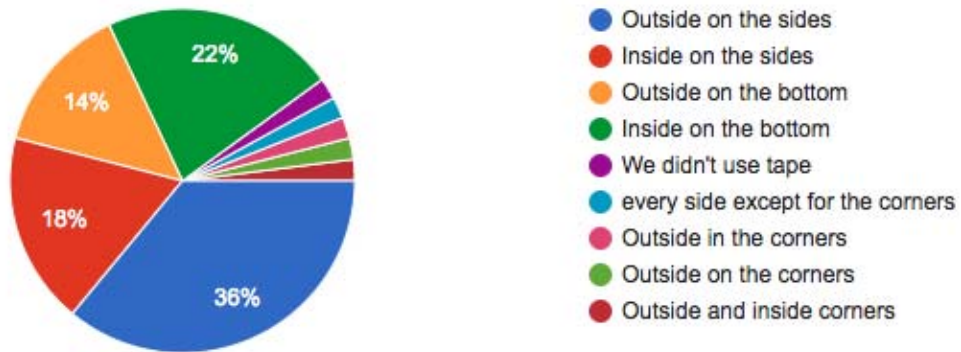
How much newspaper did you use?

50 responses



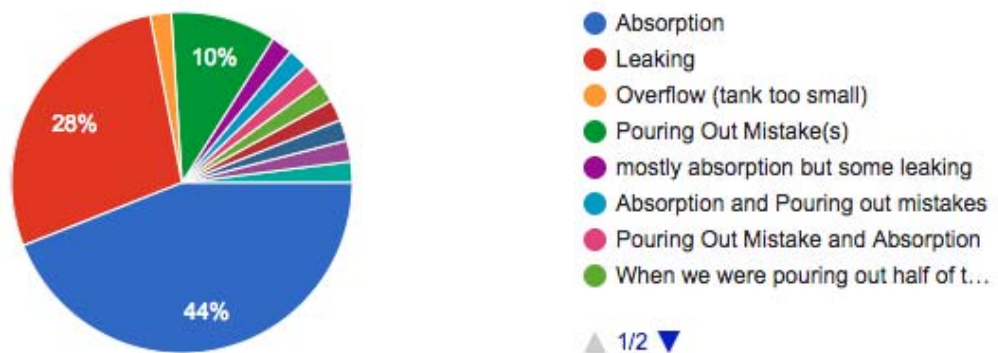
Where was most of your tape used?

50 responses



Your tank lost most of it's water due to which of the following?

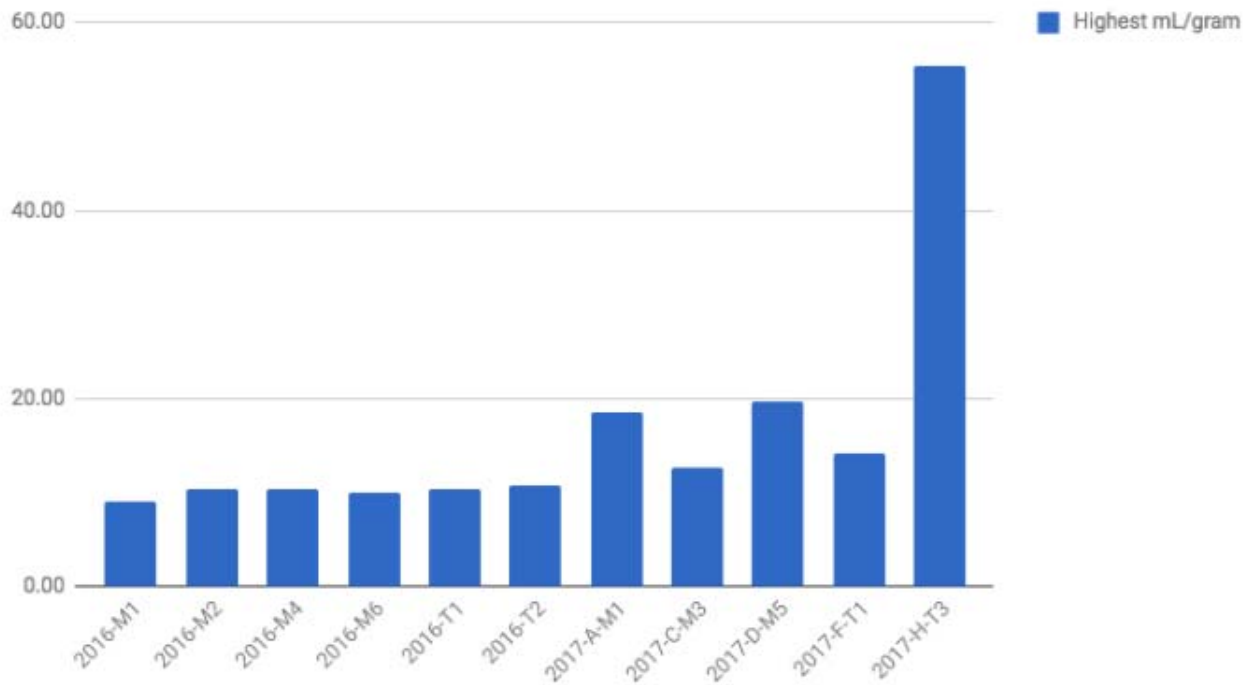
50 responses



▲ 1/2 ▼

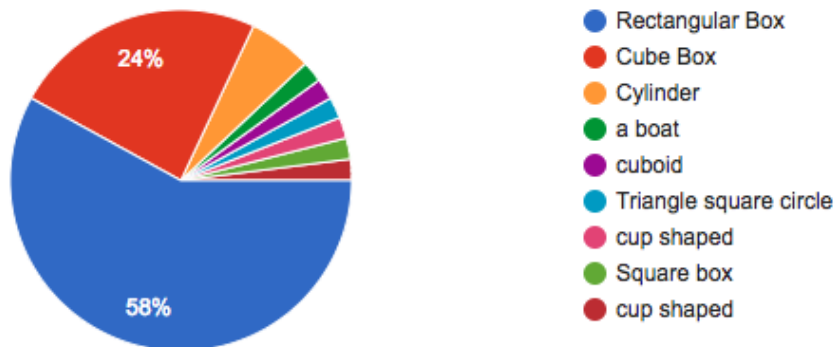


Highest mL/gram per Group - Grade 6 Design



What shape best describes your tank?

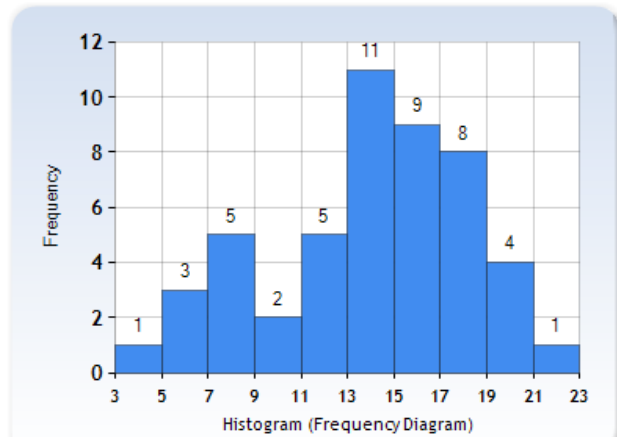
50 responses



Test Data November 2018

Frequency Table	
Class	Count
3-4.99	1
5-6.99	3
7-8.99	5
9-10.99	2
11-12.99	5
13-14.99	11
15-16.99	9
17-18.99	8
19-20.99	4
21-22.99	1

Your Histogram	
Mean	13.77306
Standard Deviation (s)	4.24332
Lowest Score	3
Highest Score	21.4
Distribution Range	18.4
Total Number of Scores	49
Number of Distinct Scores	44
Lowest Class Value	3
Highest Class Value	22.99
Number of Classes	10
Class Range	2

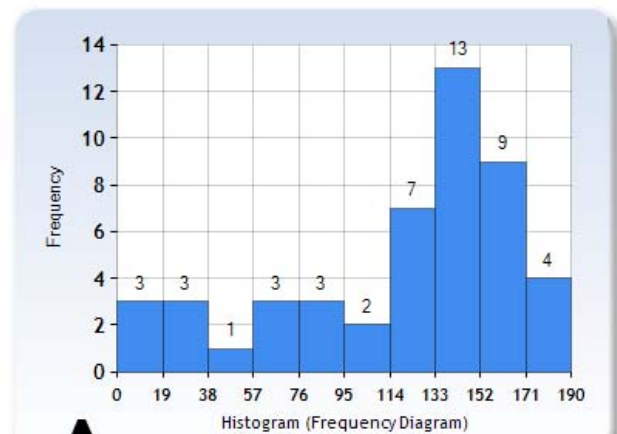


Average
Tank
Mass (g)

Edit

Frequency Table	
Class	Count
0-18.99	3
19-37.99	3
38-56.99	1
57-75.99	3
76-94.99	3
95-113.99	2
114-132.99	7
133-151.99	13
152-170.99	9
171-189.99	4

Your Histogram	
Mean	119.41667
Standard Deviation (s)	50.33064
Lowest Score	0.5
Highest Score	178
Distribution Range	177.5
Total Number of Scores	48
Number of Distinct Scores	38
Lowest Class Value	0
Highest Class Value	189.99
Number of Classes	10
Class Range	19

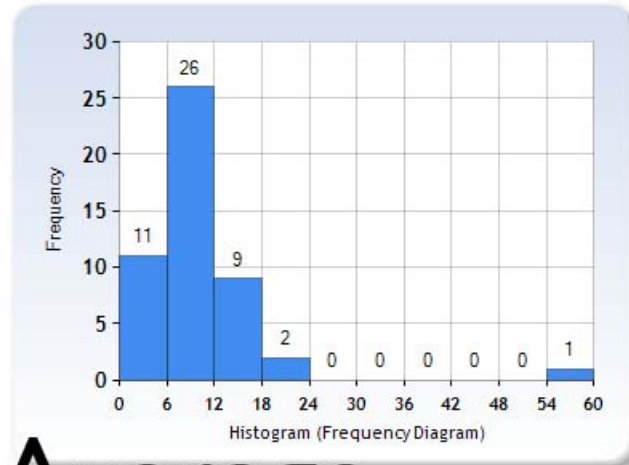


Average
H2O
Held (mL)



Frequency Table	
Class	Count
0-5.99	11
6-11.99	26
12-17.99	9
18-23.99	2
24-29.99	0
30-35.99	0
36-41.99	0
42-47.99	0
48-53.99	0
54-59.99	1

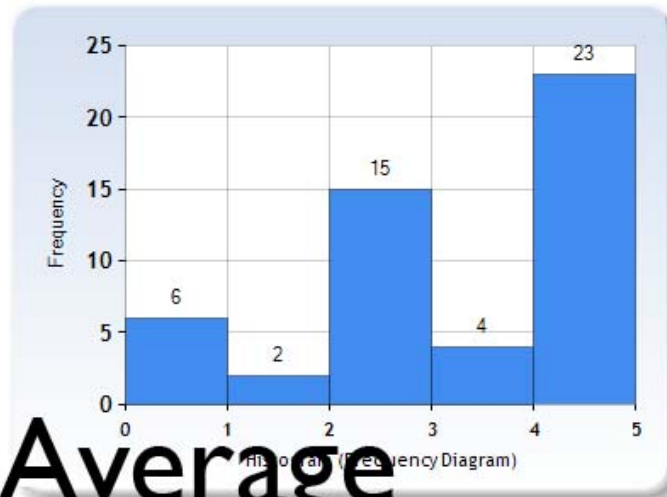
Your Histogram	
Mean	9.62102
Standard Deviation (s)	8.08806
Lowest Score	0
Highest Score	55.33
Distribution Range	55.33
Total Number of Scores	49
Number of Distinct Scores	48
Lowest Class Value	0
Highest Class Value	59.99
Number of Classes	10
Class Range	6



Average
Tank
Score (mL/g)

Frequency Table	
Class	Count
0-0.99	6
1-1.99	2
2-2.99	15
3-3.99	4
4-4.99	23

Your Histogram	
Mean	2.7666
Standard Deviation (s)	1.35831
Lowest Score	0
Highest Score	4
Distribution Range	4
Total Number of Scores	50
Number of Distinct Scores	10
Lowest Class Value	0
Highest Class Value	4.99
Number of Classes	5
Class Range	1



Average
Tank
Pop. Stick #

