

Name: _____

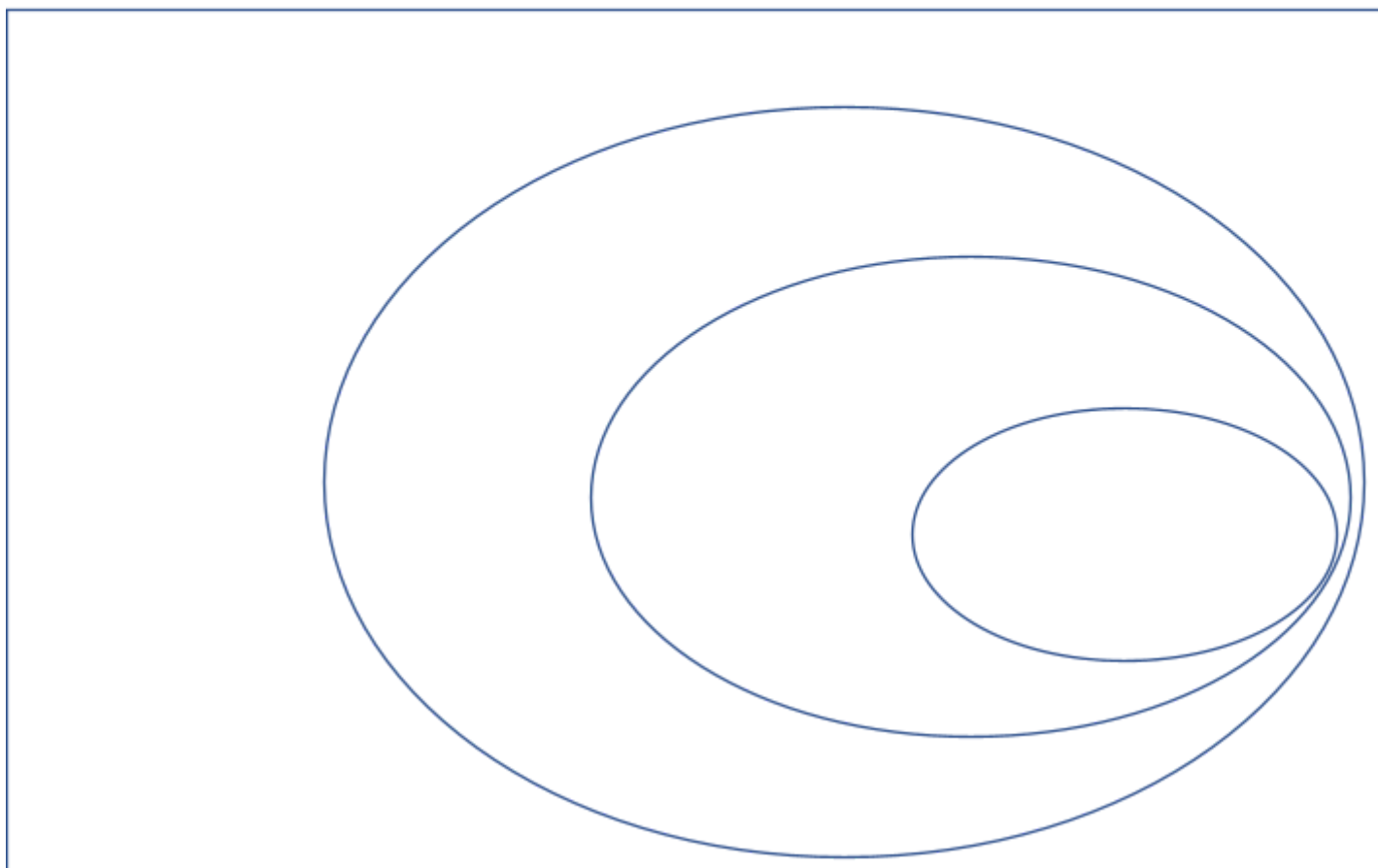
6M – U1 Integer Operations Study Guide

Define the below types of numbers

Natural Numbers	
Whole Numbers	
Integers	
Rational Numbers	

Label the Venn Diagram properly with the word bank. Then classify the below numbers into the SMALLEST POSSIBLE CATEGORY that they fit into.

Word Bank:	Natural Numbers			Whole Numbers				
Rational Numbers	Integers							
12	-7	0	0.725	-2.43	3	5	-1	



Comparing and Ordering:

1. There is a number line with a range of -4 to 16:
 - a. What are two possible scales you could use for the number line?
 - b. Create the number line using one of the above scales

2. Compare the numbers -27 and -31 using a number line. Write the range and scale that you used.

Range:

Scale:

3. Order the following set from smallest to greatest: $\{-10, 4, -6, -1, 8, 7\}$

Fill in the table below with the correct resulting sign

Operation	Resulting Sign
Positive x Positive	
Negative x Negative	
Positive x Negative	
Negative x Positive	
Positive / Positive	
Negative / Negative	
Positive / Negative	
Negative / Positive	

Adding, Subtracting, Multiplying, and Dividing Integers: Solve the following problems using whichever method you'd like (number line, counters, written). SHOW ALL OF YOUR WORK

1. $7 + (-4) =$

2. $18 - 35 =$

3. $58 \times 79 =$

4. $(-27) + (19) =$

5. $(-42) - 29 =$

6. $-12 \times 18 =$

7. $(-63) + (-76) =$

8. $(-10) + (-6) =$

9. $-56 \div -7 =$

10. $-7 \times -11 =$

11. $38 - (-84) =$

12. $-72 \div 8 =$

13. $(-255) + 68 =$

14. $144 \div -12 =$

15. $(-21) - (-53) =$

