

Strand	Number And Numeration
Sub Strand	Integers
Content Learning Outcome	-Read, write, arrange integers in ascending and descending orders -Addition, subtraction and multiplication of integers using number lines and manipulative

Lesson Notes

-The whole numbers larger than 0, 0 itself and the negative whole numbers together are called the **integers**.

Rules

-When a number is added to its additive inverse, the result is 0, for example $12 + (-12) = 0$.

-Adding an integer has the same effect as subtracting its additive inverse. For example, $(3 + (-10))$ can be calculated by doing $(3 - 10)$, and the answer is -7.

-Subtracting an integer has the same effect as adding its additive inverse. For example, $(3 - (-10))$ can be calculated by doing $(3 + 10)$, and the answer is 13.

-The product of a positive and a negative integer is negative, for example $(-15) \times 6 = -90$.

-The product of a negative and a negative integer is positive, for example $(-15) \times (-6) = 90$.

Questions

Question	Working & Answer
1. Determine whether the balance of the numbers shown below is positive or negative. 1386 to 2021	
2. Order these numbers in ascending order. 25, 16, -16, 24, -8, 4, -50, -88, 99, -45, 89	
3. Order these numbers in descending order. -48, 16, -17, 12, 15, -47, 36, 25, -5, -16	
Calculate the following problem	
4. $-6 + 8 = \underline{\hspace{2cm}}$	
5. $12 + -6 = \underline{\hspace{2cm}}$	
6. $-10 - -6 = \underline{\hspace{2cm}}$	
7. Find an integer that satisfies each equation i) $42 + \underline{\hspace{2cm}} = 32$ ii) $-15 + \underline{\hspace{2cm}} = 0$	
Simplify the following equations.	
8. $-7 \times 3 \times -2 = \underline{\hspace{2cm}}$	
9. $-2 \times -6 \times -5 = \underline{\hspace{2cm}}$	
10. $4 \times -2 \times 3 \times -4 = \underline{\hspace{2cm}}$	