

MFM2PI: Unit 1 - Linear EquationsDay 1 - Integers and Order of OperationsInteger Operations

Example 1: Find each sum: (sum is the answer when you add)a) 5 + (-2)b) 3 + (-7)c) -7 + (-6)d) -4 + 10

Example 2: Find each difference: (difference is the answer when you subtract)a) 15 - 6b) - 7 - 2c) 8 - (-8)

d) - 2 - (- 11) e) - 7 - (- 3) - 6

Example 3: Find each product: (product is the answer when you multiply)a) (-5)(3)b) 6(-7)c) (-8)(-4)d) (-7)(-3)(-5)

Example 4:Find each quotient: (quotient is the answer when you divide)a) $(-24) \div 6$ b) $(-60) \div (-12)$ c) $26 \div 2$

A fun tool to help us remember how to multiply/divide positive and negative integers! <u>Good Guy/Bad Guy</u>

	Good Guy/ Bad Guy	In Town/ Out of Town	Results	
Order of Operations				
We need to follow the order calculating expressions.			L	of operations when we are
B E D	Ν	A L	A	S
Example 5 Simplify a) $5 + 27 \div (-9)$	b) ¹ / ₂ (8 +	12) ÷5		c) $(8 - 3) + (1 - 6)$
d) (4)(-1) + (7 - 2)	e) 3(-2 + 4	$(4)^3 - 2(-4 + 1)$)	f) $-4(-2)^3 - 3(-4)^2$

To evaluate expressions when specific values are given for the variable:

- Substitute in the value for the variable (always put in brackets)
- Solve using order of operations

Ex. 2 Evaluate each of the following:

a) xy - 9 when x=2, y=0b) 13p - 7q when p=2, q=-3

Homework: Handouts "Why did the Quiz Show..." And D"Why Should You Look Out..."