



Name _____ Period _____ Date _____

Integers – Adding, Subtracting or Multiplying

- Rule 1:** When adding two positive numbers, find the sum of their absolute values, the answer is positive.
- Rule 2:** When adding two negative numbers, find the sum of their absolute values, the answer is negative.
- Rule 3:** When adding one positive and negative number, find the difference between their absolute values and use the sign of the integer with the greatest absolute value.
- Rule 4:** When subtracting numbers with different signs, change the sign of the subtrahend (second number) and add using Rule 1, 2, or 3.
- Rule 5:** When multiplying numbers with the same sign, the answer is positive.
- Rule 6:** When multiplying numbers with different signs, the answer is negative.

Example:

$$\begin{aligned} &\text{Simplify } (+5)(-4)(-3). \\ &(+5)(-4)(-3) = (-20)(-3), \\ &= 60 \end{aligned}$$

Simplify the following.

1. $(+5) + (+9)$
2. $(-3) + (-12)$
3. $(+4) + (-8)$
4. $(-10) - (+2)$
5. $(+14)(+2)$
6. $(-11)(-3)$
7. $(+15)(-6)$
8. $(-6) + (+10) + (-3)$
9. $2(-10)(-8)$
10. $-2 - 9 - 11$
11. $-4 + 25 + 1 - 3$
12. $(-1)(-7)(-9) + 2$
13. $(+3)(+3)(-6)$
14. $7(-4) - 10$
15. $-2 + 3(4) - 5(6)$