## Integer Operation Rules

ADDITION

- If the signs are the same, the result carries the same sign.
- For example: $6+4=10$ or $-6+-4=-10$
- If the signs are different, take the difference between the numbers (disregarding the negative sign for a moment), and keep the sign of the larger.
- For example: $-6+4=-2$ or $6+-4=2$

SUBTRACTION

- Change subtraction to "adding the opposite."
- For example: 4-6 is the same as $4+-6$ which is -2
- Another example: $4--6$ is the same as $4+6$ which is 10
- Another example: -4-6 is the same as -4+-6 which is -10
- Another example:
-4--6 is the same as $-4+6$ which is 2


## MULTIPLICATION

- If the signs are the same, the result is positive.
- For example:
$(4)(6)=24$
or $\quad(-4)(-6)=24$
- If the signs are different, the result is negative.
- For example: $(-4)(6)=-24$ or $(4)(-6)=-24$


## DIVISION

- If the signs are the same, the result is positive.
- For example: $\frac{24}{6}=4 \quad$ or $\frac{-24}{-6}=4$
- If the signs are different, the result is negative.
- For example: $\frac{-24}{6}=-\mathbf{4}$ or $\frac{24}{-6}=-4$


## Practice

[Remember BEDMAS for order of operations]

1. $(-2)(-4)+(3)(-1)=$
2. $(-5)(2)-(6)(1)=$
3. $\left(\frac{-15}{3}\right)+\left(\frac{-50}{-5}\right)=$
4. $\left(\frac{-4}{-1}\right)-\left(\frac{-30}{6}\right)=$
5. $\left(-2+4^{2}\right) \div((2)(3)+8)=$
6. $\left(-27 \div 3^{3}\right)\left(\left(\frac{-12}{-3}\right)-10\right)=$
7. $2^{4}+-5+(9)(2)-(-6) \div(-1)=$
8. $\frac{(0-4+9)}{(-1)^{5}}=$

## Answers For Practice

1. 5
2. -16
3. 5
4. 9
5. 1
6. 6
7. 23
8. -5
