Lesson 1.1 ~ Order of Operations

Name_____ Period_____ Date_____

Evaluate each expression. Show your work.

1. $4+3\cdot 6+1$

2. $3(-2+5)-4$

3. $(4+3)(8-1)$

4. $\dfrac{(-3+9)^2}{4}$

5. $2\cdot 3-2\cdot 6+14\div 7$

6. $12\div 3\cdot 2-2^3$

7. $5\left|-6+2\right|-8$

8. $(4+1)^2+3(2+7)$

9. $\dfrac{18+6(-2)}{3}+10$

10. $\dfrac{\left|6+(-15)\right|}{9}$

11. Sunset Middle School is putting on a Spring Musical. Tickets are $6 for adults and $2 for students. On opening night, they sold 90 tickets to adults and 50 tickets to students.

a. Write an expression to represent the total amount of money collected in ticket sales on opening night.

b. How much money was collected in ticket sales on opening night?

12. Create an expression with at least four numbers and two different operations that has a value of 12.

Lesson 1.1C ~ Order of Operations

Name_____ Period_____ Date_____

Fill in the box with a number from 1 to 10 that makes the equation true. If there are two boxes in a problem, both boxes must contain the same number

1. $-5+\square^{2}\times 3=142$

2. $\dfrac{\square-4^{2}-(-1)}{4}=-4$

3. $\dfrac{40-13}{\square^{2}}\bullet 2+4-\square=7$

4. $6(7-\square)^{3}+4=-2$

5. $\dfrac{5|3-\square|}{2}-4\bullet 2^{3}+\square^{2}=27$

6. $\square^{(2^{2}+2^{3})}+2^{4}-2\square=44$

Use the numbers 1, 2, 3, 4 and 5 once in each expression to create an answer that meets each criteria. Each expression must use at least one exponent and at least two different types of operations. You can make any of the values negative (e.g. −1, −2, etc).

Example: Has an answer that is even. $2^{3}+1-5+4$

Uses each number once and equals 8, which is even.

7. Has an answer that is odd.

8. Has an answer that is divisible by 3.

9. Has an answer less than 0.

10. Has an answer that is a prime number.

11. Has an answer that is between −10 and −20.

12. Has an answer equal to 24.