Date

AGENDA

- WARM-UP
- LAUNCH
- PRACTICE
  Multiplying/Dividing Integers
- CORNELL NOTES
  Order of Operations
- EXIT TICKET

WARM-UP

Page

Copy and solve each problem.

1) 6(18)

2) -4 x -25

3) 12/ (-3)

4) $\frac{-92}{-4}$

5) Alicia owes $6 to each of 4 friends. If she paid back one of her friends, how much money does she still owe?

Fill in the blank

To multiply or divide signed integers, always multiply or divide the _____ values and use these rules to determine the ____ of the answer.

The product/quotient of two positive integers or two negative integers is _____.

The product/quotient of a positive integer and a negative integer is _____.

Topic: Order of Operations with Integers	**Lesson Essential Question**
What is it?	**the steps that ensure numerical expression have only one value**
What do I do?	**Parentheses** **Exponents** **Multiply / Divide from left to right** **Add / subtract from left to right**
Why does the order matter?	The answer will be different.
Example:	1) 10 - 5(7) 10 - 35 -25 2) 10 - 5 x 7 5 x 7 35 Which is done correctly?

Order of Operations

List the steps and find the answer.

Ex 1) $(2+3)^2$ P, E

$5^2 = 25$

Ex 2) $2(3) - 4/2 + 2^2$

Ex 3) $(6 - 3) + 2(1+4) - 7$

Ex 4) $(3-2)^2 - 10/5 + 2(3)$

Order of Operations

$4^2 - 12 \div 3 + 7 - 5$	$2 + 3^2 \times 4 - 3$	$(2 + 8)^2 + 6(4 + 5)$
Steps		
Work		
Solution		

Fall Back

1. DEATH VALLEY The lowest point in the United States is Death Valley in California. Its altitude is 282 feet below sea level. Write an integer to represent the altitude of Death Valley.

2. RAIN A meteorologist reported that in the month of April there were 3 inches more rainfall than normal. Write an integer to represent the amount of rainfall above normal in April.

3. STOCK MARKET A certain stock gained 5 points in one day and lost 4 points the next day. Write integers to represent the stock's gains and losses for the two days.

Name Date Block

1) -4(-18) - 7

2) 6 - (-8) x 9

3) 15 - (10/2) + -3

4) -16/8 + -7(4)

5) What phrase is important when you add and subtract in a numerical expression using the order of operations?

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AGENDA

- WARM-UP
- REVIEW HW
- PRACTICE

Order of Operations

- INTEGER BINGO

WARM-UP

Page #

Copy and solve each problem.

1) $-7(-8) - 3$

2) $40 + (-5) \times 9$

3) $25 + 10/2 - (-3)$

4) $(-6) + 5^2(4)$

5) Michael loaned out $35 to his 4 friends. If each friend received the same amount, how much money is Michael owed?

Integer BINGO

Fill each box with a value between 20 and its opposite.

1) 4×-3

2) $-15 \ / \ -5$

3) $8 + -7$

4) $2(-9) + 3$

5) $(-3)^2 + (5-2)$

6) $56/-7$

7) 6×-1

8) $\frac{100}{5}$

9) $90 \div -10$

10) $4^2 - 9$

11) $4(-5)$

12) $2^3 - (10-7)$

13) $36 / 4$

14) -2×-9

Game 2

1) $-12 / -4$

2) 5×-4

3) $80 / 10$

4) $-2(-3)(-2)$

5) $-50 / -5$

6) $0^9 + 5(4) - 7$

7) $8 - (-7)$

8) $10 + (-3)^2$

9) $18 \times -2 + 16$

10) 3×-2

11) $-100 / 10$

12) $14 / 2$

13) $2^3 \times -2$

14) $12/3 + 10$

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- WARM-UP
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- PRACTICE

Order of Operations

- INTEGER BINGO

WARM-UP (H)

Page

Copy and solve each problem.

1) $-7(-8) - 3$

2) $40 + (-5) \times 9$

3) $25 + [10/2 - (-3)]$

4) $(-6)^2 + 5^2(4)$

5) Michael loaned out $35 to his 4 friends. If each friend received the same amount and only one has paid him back, how much money is Michael still owed?

Date

AGENDA

- Warm Up
- Review Hw
- Quiz
- Integer Time Line Project

Warm Up

Write an integer to express each scenario.

1. ARCHIMEDES A famous mathematician and physicist named Archimedes was born in 287 B.C.

2. TEMPERATURE In our world's tropical rain forests, the average temperature of every month is 64 degrees above zero or higher.

3. ALTITUDE An airplane pilot decreased his altitude by 100 meters.

Solve.

4. $(-4)^3$

5. 16/2 + 7 - 15(3)