

Name: _____
Ms. Napolitano

Date: _____
CCSS: _____

Day 4_Order of Operations

Try Now:

- Find the value of the expression.
a) $11 - (6 + 1)$

Solution: _____

- Joy was asked to evaluate the following expression, $4^2 + 16 \div 2 \times 2$. Her answer was 24. Is Joy correct? Justify your answer.

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Try Now:

- Find the value of the expression.
b) $11 - (6 + 1)$

Solution: _____

- Joy was asked to evaluate the following expression, $4^2 + 16 \div 2 \times 2$. Her answer was 24. Is Joy correct? Justify your answer.

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Day 4_Order of Operations

Independent Practice A

1. Use Order of Operations to write down the steps that were used to evaluate each question below.

<u>Evaluate</u>	<u>Steps</u>
$14 + 6 \div 3$ $= 14 + 2$ $= 16$	1.
	2.

<u>Evaluate</u>	<u>Steps</u>
$7 + 60 \div (3 \times 5)$	1.
$= 7 + 60 \div 15$	2.
$= 7 + 4$	3.
$= 11$	

- 2. Evaluate each of the following numerical expressions.**

<u>A</u>	<u>B</u>
$12 - 2 \times 18 \div 6$	$7 + 5(28 - 6) - 2^4$
Answer: _____	Answer: _____

Decide whether each expression is equal to 5, 7, or neither.
Write the letter next to each expression under the appropriate column.

A. $9^2 - 11(6) - 10$

B. $2^4 - 3^2$

C. $6^2 - 5 \times 3$

D. $\frac{5^2+2-4(2^2-1)}{3}$

E. $4^2 - 3^2 + 3(5) - 17$

Equal to 5

Equal to 7

Neither

Show your work below

A

B

C

D

E

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Day 4_Order of Operations**Independent Practice B****1. Evaluate each of the following numerical expressions.**

<u>A</u>	<u>B</u>
$12 - 2 \times 18 \div 6$	$7 + 5(28 - 6) - 2^4$
Answer: _____	Answer: _____

- . Decide whether each expression is equal to 5, 7, or neither.
Write the letter next to each expression under the appropriate column.

	Equal to 5	Equal to 7	Neither
A. $9^2 - 11(6) - 10$			
B. $2^4 - 3^2$			
C. $6^2 - 5 \times 3$			
D. $\frac{5^2 + 2 - 4(2^2 - 1)}{3}$			
E. $4^2 - 3^2 + 3(5) - 17$			

Show your work below

A	B	C	D	E

3. Evaluate $\frac{(6 - 2)^3 - 12}{2}$. Circle the appropriate answer, and answer the attached question.

- a) $\frac{2}{5}$
- b) 26
- c) 0
- d) 52

Maya chose D as the correct answer. How did she get her answer?

Evaluate the following expressions:

$$\frac{3^3 - 2(6)}{4^2 - (6 + 5)}$$

$$3^2 + 12 \div (6 - 3) \times 8$$

Answer: _____

Answer: _____

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Day 4_Order of Operations**Independent Practice C****2. Evaluate each of the following numerical expressions.**

<u>A</u>	<u>B</u>
$12 - 2 \times 18 \div 6$	$7 + 5(28 - 6) - 2^4$
Answer: _____	Answer: _____

- . Decide whether each expression is equal to 5, 7, or neither.
Write the letter next to each expression under the appropriate column.

A. $9^2 - 11(6) - 10$

B. $2^4 - 3^2$

C. $6^2 - 5 \times 3$

D. $\frac{5^2 + 2 - 4(2^2 - 1)}{3}$

E. $4^2 - 3^2 + 3(5) - 17$

Equal to 5	Equal to 7	Neither

Show your work below

A	B	C	D	E

3. Evaluate $\frac{(6 - 2)^3 - 12}{2}$. Circle the appropriate answer, and answer the attached question.

- e) $\frac{2}{5}$
- f) 26
- g) 0
- h) 52

Maya chose D as the correct answer. How did she get her answer?

4. Evaluate the following expressions:	
$\frac{3^3 - 2(6)}{4^2 - (6 + 5)}$	$3^2 + 12 \div (6 - 3) \times 8$
<p>Answer: _____</p>	<p>Answer: _____</p>

5. Directions: Use your knowledge on evaluating expressions using order of operations to evaluate the following expression.

$$4 \times \frac{49 + 1}{(8 - 3)^2}$$

Answer: _____

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Order of Operations

Exit Ticket Day 4

1. What is the value of the expression shown?

$$24 + 24 \div 4 \cdot 6$$

- A. 72
- B. 60
- C. 36
- D. 25

2. Evaluate: $10^2 - 5(8 + 5) + 3$

Answer: _____

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Order of Operations

Exit Ticket Day 4

I can write and evaluate numerical expressions involving whole-number exponents.

1. What is the value of the expression shown?

$$24 + 24 \div 4 \cdot 6$$

- A. 72
- B. 60
- C. 36
- D. 25

2. Evaluate: $10^2 - 5(8 + 5) + 3$

Answer: _____

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Order of Operations

Day 4: Homework

1. A group of people visit a museum

Age	Number of People	Admission Price per Person
65 and older	1	\$8
13-64	2	\$12.50
12 and under	4	\$4.75

What is the total admission price?

Answer: _____

- 2.

What is the value of the expression shown?

$$40 - 5 \cdot 2 + 6$$

- A. 76
- B. 36
- C. 24
- D. 0

- 3.

Mrs. Becker wrote this expression on the board.

$$18 + 8 \cdot 3^2 - 15 \div 3$$

Part A Angie says the value of the expression is 85. Edgar says the value of the expression is 229. Who is correct?

Part B Explain the steps you took to find your answer.

4. What is the value of the expression shown?

$$(8 - 5)^2 \cdot 3 - 8 \div 2$$

- A. -3
- B. 9.5
- C. 14
- D. 23

5. Which of these expressions has a value of 75?

- A. $9 + (5 + 3)^2 - 2 + 4$
- B. $9 + (5 + 3^2) - 2 + 4$
- C. $9 + 5 \cdot (3^2 - 2) + 4$
- D. $(9 + 5) \cdot 3^2 - 2 + 4$

6. What is the value of the expression shown?

$$22 + (3 + 7) \cdot 4 \div 2$$

Answer _____

7. What is the value of the expression shown?

$$19 - (6 + 5) + 4^2 \div 2$$

Answer _____

