



Aledo Independent School District

GRADES 6-12 DISTANCE LEARNING

School Name	Aledo High School
Grade Level	9-12
Week of	4/27/2020 *All assigned work due by Sunday at midnight

(SUBJECT AREA)

Estimated Time to Complete: 2 hours

Resources Needed: 1.1 Notes and assignment, Google Slides presentation

Lesson Delivery (What do we want you to learn?):

This lesson is on the ORDER OF OPERATIONS. We have done this earlier in the year – so it is mostly a review. However, in this lesson, we will learn the rules for Order of Operations so that we can evaluate expressions correctly.

Engage and Practice (What do we want you to do?):

- 1) Read over the Order of Operations Notes that details the rules for Order of Operations.**
- 2) Look at the Google Slides Presentation which will further explain how to use these rules to solve problems.**
- 3) Complete homework – problems 1-8**
- 4) Submit homework in Google Classroom**

Create and Submit (What do we want you to turn in?):

1.1 homework – Order of Operations

Optional Extension Opportunity (What do we want you to do if you want to extend your learning?):

Go into Kahn Academy and find a video on how to solve problems using Order of Operations. From this video write a paragraph describing the steps for solving problems using Order of Operations. Please give an example.

Or –

Draw a thinking map showing the steps for solving Order of Operations

TOPIC # 1 – 1: Order of Operations

Which is correct?

$$15 + 3 \cdot 2 = 36$$

$$\times 15 + 3 \cdot 2 = 21$$

Rules for order of operations

1) Parenthesis

2) Exponents

3) Multiplication and Division (left to right)

4) Addition and Subtraction (left to right)

1) $15 - 14 \cdot 3 \div 6$

$$15 - 42 \div 6$$

$$15 - 7$$

$$8$$

2) $\frac{2 \cdot 7 + 5 \cdot 3}{30 - 29}$

$$\frac{14 + 15}{30 - 29}$$

$$30 - 29$$

$$\frac{29}{1}$$

$$29$$

$$\begin{aligned}
 3) \quad & 3^2 \cdot 10 - 6^2 \div 12 \\
 & 9 \cdot 10 - 36 \div 12 \\
 & 90 - 3 \\
 & 87
 \end{aligned}$$

$$\begin{aligned}
 4) \quad & 16 \div 4 \cdot 3^2 - 6(2 \cdot 3) \\
 & 16 \div 4 \cdot 9 - 6(2 \cdot 3) \\
 & 16 \div 4 \cdot 9 - 6(6) \\
 & 16 \div 4 \cdot 9 - 36 \\
 & 4 \cdot 9 - 36 \\
 & 36 - 36 \\
 & 0
 \end{aligned}$$

$$\begin{aligned}
 5) \quad & 2 \cdot 7 + 5 - 3 + 6 \cdot 5 + 3 \\
 & 14 + 5 - 3 + 30 + 3 \\
 & 19 - 3 + 30 + 3 \\
 & 16 + 30 + 3 \\
 & 46 + 3 \\
 & 49
 \end{aligned}$$

$$\begin{aligned}
 6) \quad & \frac{20 - [4^2 \div (2 + 14)] + 5}{4^2 - 13} = \frac{20 - [16 \div 16] + 5}{16 - 13} \\
 & = \frac{20 - 1 + 5}{16 - 13} \\
 & = \frac{24}{3} \\
 & = 8
 \end{aligned}$$

Order of Operations

Rules for Order of Operations

Who is correct?

Mrs. Loftin: $4 + 2 \times 3 = 6 + 4 = 10$

Coach Johnson: $4 + 2 \times 3 = 4 + 2 = 6 \times 3 = 18$

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The document also notes that records should be kept for a sufficient period to allow for a thorough audit.

2. The second part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The document also notes that records should be kept for a sufficient period to allow for a thorough audit.

3. The third part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The document also notes that records should be kept for a sufficient period to allow for a thorough audit.

4. The fourth part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud. The document also notes that records should be kept for a sufficient period to allow for a thorough audit.

Practice Problem...

$$(3 + 1)^3 \times 2 + 4 =$$

.....

-) Do everything in () (3 + 1) = 4
-) Simplify exponents 4 x 4 x 4 = 64
-) Multiply (L to R) 64 x 2 = 128
-) Add 128 + 4 = 132

Name _____ Date _____ Period _____

Order of Operations

Simplify each expression using order of operations.

1. $4 + 3(5 - 2)$

2. $16 - 32 \div 4$

3. $14 - 16 \div 8 + 3^2 \cdot 5$

4. $10 - 3(5 - 2)$

5. $3(7 + 4) - 18 \div 3^2$

6. $\frac{5 \cdot 6 + 2}{12 - 4}$

7. $\frac{5 \cdot 2^2 + 2}{17 - 2 \cdot 3}$

8. $7 + 2 \cdot 28 - 3 \cdot 9 + 39 \div 3$

