

Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

Starter

What's the same and what's different?

$$(5 + 2) \times 3^2$$

$$(5 + 2 \times 3)^2$$

$$5 + (2 \times 3)^2$$

$$5 + 2 \times 3^2$$

Keywords

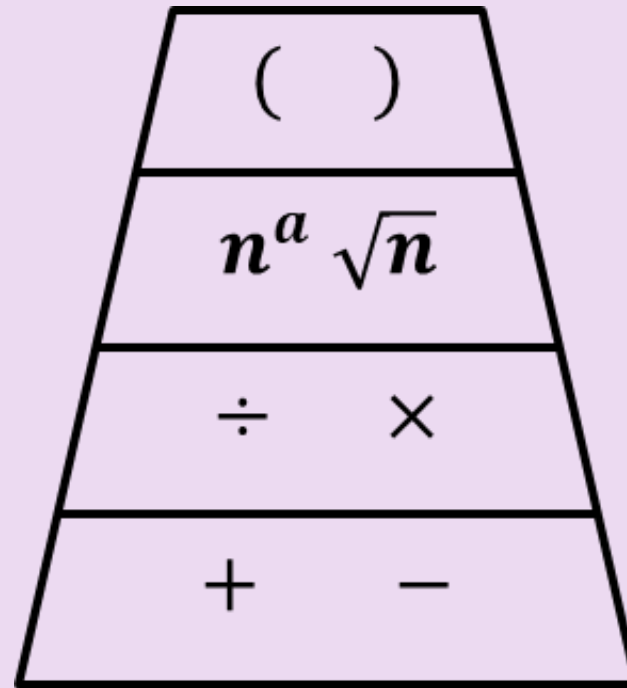
Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.



Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Lesson Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

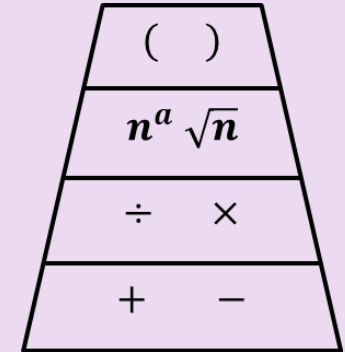
Excelling students will be able to use the correct order of operations to find errors in calculations.

Examples

$$\begin{aligned}2 + 3 \times 4 \\&= 2 + 12 \\&= 14\end{aligned}$$

$$\begin{aligned}7 - 2 \times 6 \\&= 7 - 12 \\&= -5\end{aligned}$$

$$\begin{aligned}3 + 5 \times 4 \div 2 \\&= 3 + 10 \\&= 13\end{aligned}$$

Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

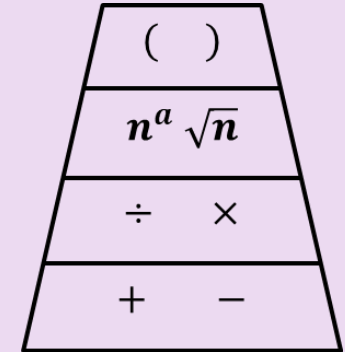
Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

Examples

$$\begin{aligned}2 \times 3 - (4 + 2) \\&= 2 \times 3 - 6 \\&= 6 - 6 \\&= 0\end{aligned}$$

$$\begin{aligned}4 \times 3^2 - (7 + 2) \\&= 4 \times 3^2 - 9 \\&= 4 \times 9 - 9 \\&= 36 - 9 \\&= 27\end{aligned}$$

Keywords

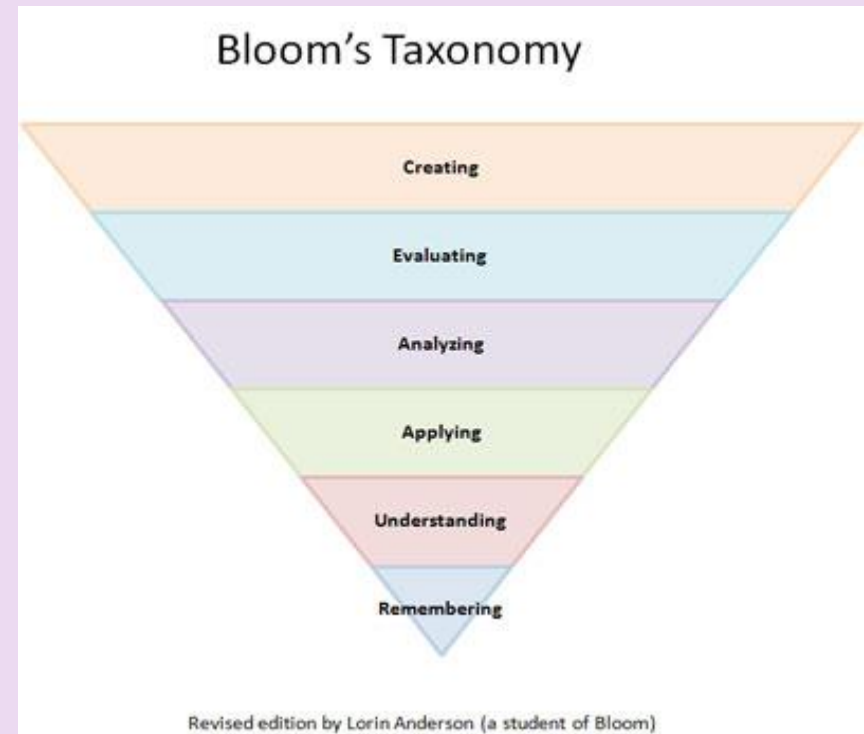
Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Probing questions to check understanding:

Show me a problem where the answer is:

- 8
- -6
- 45

Show me two questions that look similar but have different answers.



TRUEFALSE

$$9 \times (4 - 2) = 34$$

$$9 \times (4 - 2) = 18$$

$$9 + 6 \div 2 = 7.5$$

$$7 - 2 \times 4 = -1$$

$$5 - 2 \times 3 = 9$$

$$9 + 6 \div 2 = 12$$

$$7 - 2 \times 4 = 20$$

$$5 - 2 \times 3 = -1$$



Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

How **confident** do you feel with this topic?

Write **red**, **amber** or **green** in your book!

Complete the corresponding activity 😊

Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

Answers

1.	31	8.	38
2.	12	9.	12
3.	35	10.	100
4.	34	11.	0
5.	5	12.	12
6.	4		
7.	90		

Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

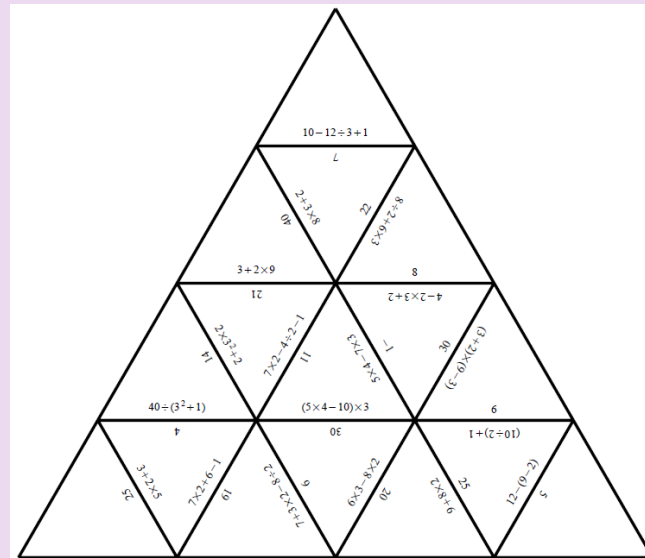
Lesson Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

Pair Activity



Find 5!

Using the correct order of operations Find 5 mistakes in this Jigsaw!

Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

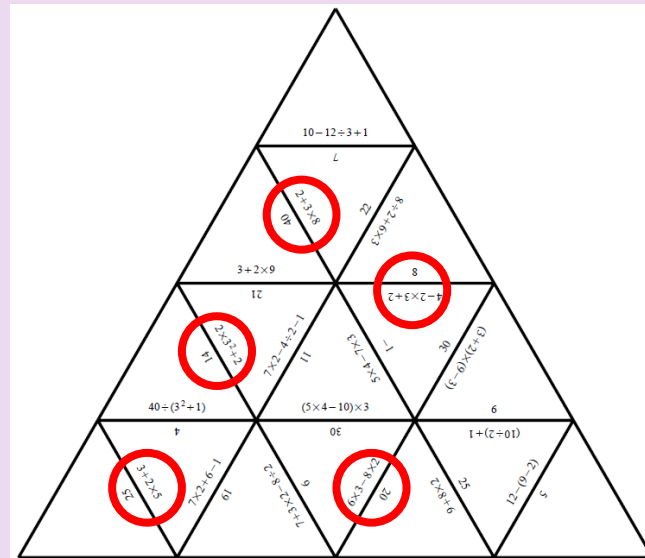
Lesson Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.

Pair Activity



Find 5!

Using the correct order of operations Find 5 mistakes in this Jigsaw!

Keywords

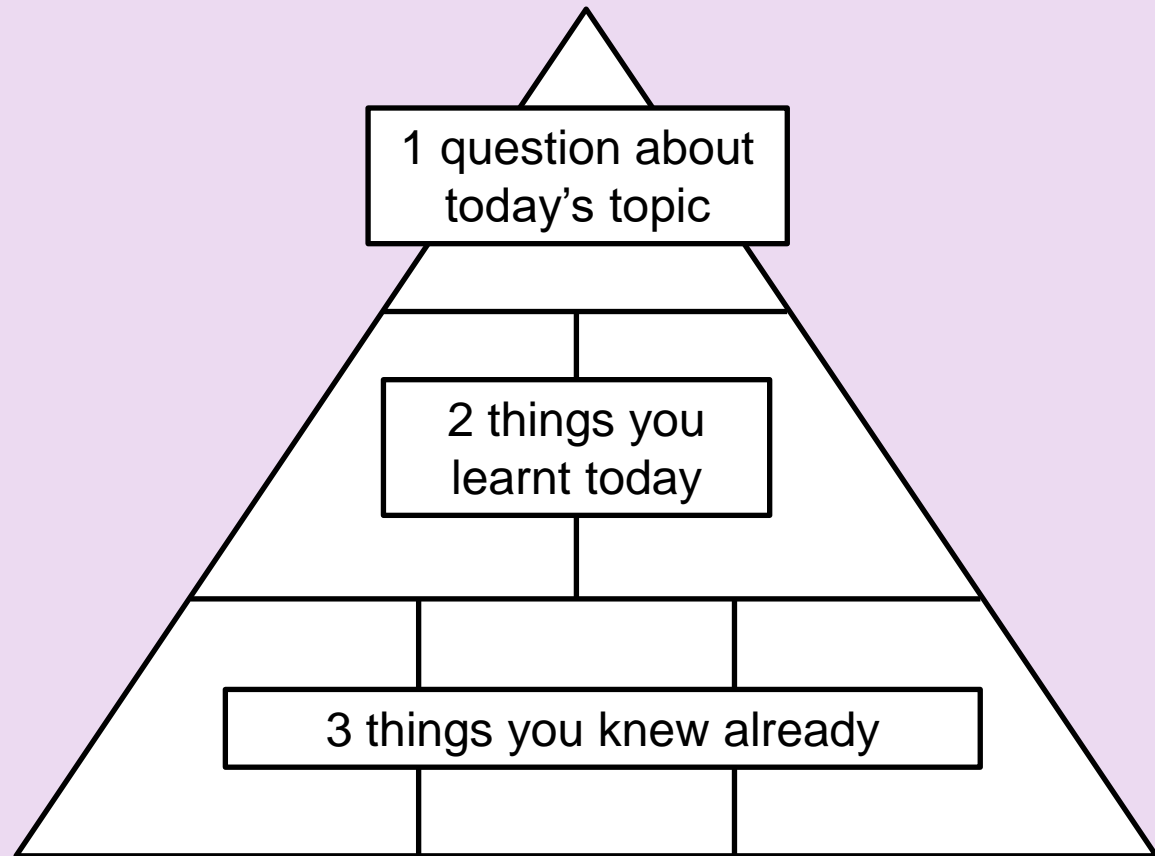
Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations

Lesson
Objectives:

Developing students will be able to apply the correct order of operations.

Secure students will be able to justify when the correct order of operations has not been used.

Excelling students will be able to use the correct order of operations to find errors in calculations.



Keywords

Brackets, indices, division, multiplication, addition, subtraction, correct, order, operations