## Year 6 - Autumn Block 2 - Four Operations - Order of Operations

## About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

## National Curriculum Objectives:

Mathematics Year 6: (6C9) Use their knowledge of the order of operations to carry out calculations involving the four operations

More Year 6 Four Operations resources.

Did you like this resource? Don't forget to review it on our website.

## Year 6 - BODMAS

Good morning, Year 6! It's Wednesday 20 th May 2020. We are doing some revision of some work from Autumn today...

## Part 1 - Fluency

$$
\begin{aligned}
& \text { WALT Calculate Order of } \\
& \text { Operations (BODMAS) } \\
& \text { See my notes in green to } \\
& \text { help you. }
\end{aligned}
$$

Complete the calculations as a bit of practice for some of what will come today.
A. $3^{3}=$
E. $11 \times 7=$
B. $9^{2}=$
F. $\mathbf{8}^{\mathbf{2}=}$
C. $12 \times 9=$
D. $48+27=$
Н. $159-78=$
G. $5^{3}=$

## Complete the calculations.

A. $3^{3}=9$
E. $11 \times 7=77$
B. $9^{2}=81$
C. $12 \times 9=108$
D. $48+27=75$
H. $159-78=81$

## A note about order of operations

Do you remember BODMAS? It's what we use to help us solve multistep number problems correctly.
B. Brackets (solve any bracketed bits first)
O. Orders (squares, cubes etc - solve these next)
D. M. Division and multiplication (equally important so read from left to right and do whichever you see first after brackets and orders)
A.S. Addition and subtraction (equally important so read from left to right and do whichever you see first after brackets, orders and division/multiplication)

## Varied Fluency 1

Match the calculation to the correct answer.


## Varied Fluency 1

Match the calculation to the correct answer. Remember BODMAS


## Varied Fluency 2

Find the missing number.
$3+28 \div$


## Varied Fluency 2

Find the missing number.

$$
\text { Because } 28 \div 4=7 \text {, and } 7+3=10
$$

(I worked this out in my head by getting rid of the 3 all together; I took 3 away from the answer (10) to leave 7. Then I just had to work out how many 7 s were in 28 to give me the missing number.

$$
3+28 \div 4=10
$$

## Varied Fluency 3

## Which calculation below gives the following answer?



## Varied Fluency 3

## Which calculation below gives the following answer?

$$
\begin{gathered}
\begin{array}{c}
(3+7) \times 8-10 \\
3+7=10,10 \times 8=80 \\
80-10=70
\end{array} \\
\begin{array}{c}
10 \times 7-2 \\
\text { Because } 10 \times 7=70 \\
\text { and } 70-2=68
\end{array} \\
\begin{array}{c}
(16+2) \times 4-2 \\
76+2=18,18 \times 4=72 \\
72-2=70
\end{array} \\
\begin{array}{c}
8 \times(10-2)+2 \\
10-2=8,8 \times 8=64 \\
64+2=66
\end{array} \\
\hline
\end{gathered}
$$

Add brackets to each calculation to make them correct. Remember that whatever is in brackets is calculated first.


## Varied Fluency 4

Add brackets to each calculation to make them correct.


## Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge - the ' $A$ ' questions. If you want extra practice, you can then do the ' $B$ ' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.

